CU AMIGA

THE MAGAZINE FOR A500, A500+, A600 & A1200 OWNERS

MORTAL KOMBA

EXCLUSIVE

WORTH £40

• DOUBLE DISK DYNAMITE •

DISK 66 A500, A500+, A600, A1200 COMPATIBLE CU AMIGA

Care Electronics'

FLEXIDUMP 2.5

COMPLETE PROGRAM

WORTH £50

The ultimate image processing and printing tool! Manipulate your *DPaint* pictures and squeeze every last ounce of power out of your colour or black and white printer. Print your own posters and banners; perform colour separations; transform colour pictures into monochrome prints. All this and much, much more can be yours with this excellent print'n'paint program. And you don't even need a printer to use it!

PLUS! Special custom drivers to enhance printing on 90% of printers! The latest VirusChecker! AMOS code! Zerberk - a Berzerk tribute!

NO DISK ATTACHED?

ASK YOUR NEWSAGENT

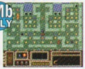
DISK 67 A500, A500+, A600, A1200 COMPATIBLE CU AMIGA

WONDERDOG

Take control of the fabulous Wonder Dog in his quest to save his home planet from the evil Pitbullies! Our exclusive demo of this ace console conversion sees Wonder Dog leaping for his life in the underground platform level. Dodge the bad guys, smash them with your magic stars and pick up as many bonuses as you can in this fully playable demo.

MEAN ARENAS

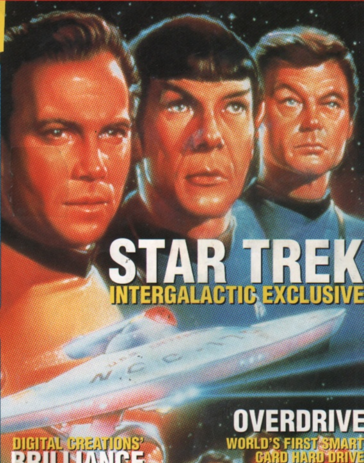
1Mb ONLY



Pacman eat your heart out! This top-down blaster pits you against deadly killer robots in a race to snatch the cash. Use your joystick skills to dodge the lethal droids but don't forget to use your brain to guide you around the equally dangerous maze. Get shooting.

NO DISK ATTACHED?

ASK YOUR NEWSAGENT



STAR TREK

INTERGALACTIC EXCLUSIVE

OVERDRIVE

WORLD'S FIRST SMART CARD HARD DRIVE

DIGITAL CREATIONS'

BRILLIANCE

196 PACKED PAGES

OCTOBER £3.95
US$7.95 CA$9.95 DM20
PTA 995 L13600 ASCH 170
AN EMAP PUBLICATION

THE FUTURE OF THE AMIGA: ROUND TABLE DISCUSSION ● WIRED WORLD: WHAT THE COMMUNICATIONS REVOLUTION MEANS TO YOU! ● AMIGA 3D: PHOTO-REALISTIC IMAGES ON YOUR AMIGA ● MODEM BUYER'S GUIDE ● T2 - THE COIN-OP WORK IN PROGRESS ● SPACE HULK, HIRED GUNS & D-HERO REVIEWED! ● QUARTERBACK TOOLS DELUXE REVIEWED

10
9 770963 009020

WHEN THE STREET
JUST AIN'T
TOUGH ENOUGH...
GO PLAY
IN THE
PARK
JP
TM

JURASSIC PARK™
TM & © 1992 UNIVERSAL CITY STUDIOS, INC. & AMBLIN ENTERTAINMENT, INC.

F IT'S NOT JURASSIC PARK IT'S EXTINCT

ocean®

CBM AMIGA
C COMPATIBLES

SUPER NINTENDO ENTERTAINMENT SYSTEM
Nintendo® ENTERTAINMENT SYSTEM®
GAME BOY

CEAN SOFTWARE LIMITED . 2 CASTLE STREET . CASTLEFIELD . MANCHESTER . M3 4LZ TELEPHONE: 061 832 6633 . FAX: 061 834 0650

power computing

technical hotline
0234 841882

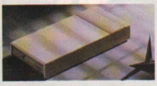
PC880B POWER DRIVE

The award winning external disk drive which includes Anti-Click (cures that annoying click), Virus Blocker (prevents viruses) and built-in Backup hardware.

The PC880B is available with Blitz Amiga, Blitz and X-Copy or Cyclone compatible (this drive is only available to registered owners of X-Copy Professional. You must provide proof of purchase of X-Copy Professional). The drive comes in a choice of two colours, black or cream.

PC880B WITH BLITZ AMIGA £60
PC880B WITH BLITZ, X-COPY ..£75
PC880B (CYCLONE COMPATIBLE) £65
PC880B IN BLACK CASE £65

POWER DRIVES



PC880E ECONOMY DRIVE ..£49.95
PC881 A500 INTERNAL £45
PC882 A2000 INTERNAL £45
POWER DUAL DRIVE £125

3.5" SYQUEST DRIVE

3.5" removable hard drive from Syquest. Each cartridge stores 105MB.

3.5" SYQUEST DRIVE (17ms) .£739
3.5" 105MB CARTRIDGE £79

BLITZ AMIGA

Backup disks at lightning speeds, and stop all external drives from clicking. Blitz does not let viruses from being written into the bootblocker. (The 1988 Copyright act applies)

BLITZ AMIGA £15

FLOPTICAL DISK DRIVE

The Floptical stores 20MB of data on a 3.5" disk (a SCSI interface is required).

FLOPTICAL A2000 KIT £289
FLOPTICAL A500 EXTERNAL....£389

POWERSCANNER V3.0

The awarding winning PowerScanner is able to scan from 100 - 400DPI in 64 greyscales. The scanning software included allows you to edit and manipulate any image you scan.

The scanner interface includes a through port for a printer. (The Amiga only displays 16 greys)

POWERSCANNER V3.0 ....£99
POWERSCANNER INC. OCR ...£149
OCR JUNIOR SOFTWARE £49
OCR FULL VERSION UPGRADE ..£49
(OCR full version is only available to registered users of OCR Junior)

COLOUR POWERSCANNER

Scan 100 - 400 DPI in 4096 colours, with the Colour PowerScanner.

The scanner interface includes a full through port.

COLOUR POWERSCANNER £239

POWERSCAN UPGRADES

If you consider your scanner system to be inferior to the Power Scanner, we will upgrade your software and interface.

V3.0 UPGRADE (INC INTERFACE) ..£49.95
V3.0 UPGRADE (SOFTWARE, SEND SAE) £15

EPSON GT-6500

High resolution 24-bit colour flatbed scanning from Epson. Scan up to A4 in size on this 600 DPI scanner. Comes with PowerScan software or ASDG software.

EPSON GT-6500 (INC SOFTWARE) ...£799

EPSON GT-8000

Power is official distributor for Epson
High resolution 24-bit colour flatbed scanning from Epson. Scan up to A4 in size on this 800 DPI scanner. Comes with PowerScan software or ASDG software.

EPSON GT-8000 (INC SOFTWARE) .£1199

TRANSPARENCY ADAPTOR

Scan up to 5"x 4" transparencies. Available for the GT - 6500 and GT - 8000 scanners.

TRANSPARENCY ADAPTOR.....£589

DOCUMENT FEEDER

Automatic 50-sheet document feeder for the GT-6500 and GT-8000 scanners.

DOCUMENT FEEDER................£399

A600 MEMORY CARD

1MB RAM with battery backed clock

A600 1MB RAM £39.95

PC501+ MEMORY CARD

Our RAM board is designed especially for the A500+ computer and comes with 1MB of RAM on-board to expand your memory to 2MB of chip RAM (fits in the trap-door).

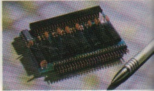
PC501+ MEMORY CARD £35.95

1.5MB RAM BOARD

Fully supports 1MB of chip RAM and is fully compatible with Fatter Agnus (requires Kickstart 1.3 and above, not compatible with A500+. Your Amiga needs to be opened, this may effect your warranty).

1.5MB RAM BOARD £85

1MB WITH THRU'PORT



Expand your A500's memory up to a total of 2MB without disposing of your existing 512K upgrade (works with 1MB chip RAM, 512K RAM must be 4 chip type or not exceeding 9cm in length. Your Amiga needs to be opened, this may effect your warranty).

1MB WITH THRU'PORT £49

A500 MEMORY CARD

4 Chip 512K RAM expansion with or without battery backed clock.

Free software included (A500+ compatible)

A500 CARD WITH CLOCK £29
A500 CARD WITHOUT CLOCK ..£24

A500 8MB POWERBOARD

Expand your Amiga from 2MB to 8MB of RAM. Plugs into side slot, full auto config and full through port.

A500 2MB POWERBOARD £129
A500 4MB POWERBOARD £189
A500 8MB POWERBOARD £289
1 X 4 ZIP £14.95

A2000 8MB POWERBOARD

2MB to 8MB RAM expansion for the A2000

A2000 2MB POWERBOARD £99
A2000 4MB POWERBOARD ...£149
A2000 8MB POWERBOARD ...£239

D

9.95

RD

ecially
s with
your
in the

35.95

and is
Agnus
e, not
Amiga
ct your

...£85

RT

p to a
of your
h 1MB
4 chip
h. Your
is may

...£49

RD

with or

patible)

....£29
...£24

ARD

8MB of
config.

..£129
..£189
..£289
£14.95

OARD

A2000

.....£99
...£149
...£239

COMMODORE AMIGA

A wide range of Amiga's are available.

A1200	£295
A1200 60MB HD	£475
A1200 80MB HD	£505
A1200 170MB HD	£660
A1200 212MB HD	£725
A4000 68040 120MB HD 6MB	£2329
A4000 68030 80MB HD 4MB	£1129
A4000 68030 80MB HD 2MB	£979

MONITORS

A wide range of monitors are available.

PHILIPS CM8833 MK2 INCLUDES LOTUS 2, ON-SITE MAINTENANCE	£229
COMMODORE 1084S	£199
MULTISYNC MONITOR	£POA

ICD PRODUCTS

ICD sole distributor. Trifecta is SCSI 2 and IDE compatible. (Trifecta EC is only IDE)

TRIFECTA 2000 LX BARE	£139
80MB HD	£239
160MB HD	£329
200MB HD	£399
TRIFECTA 500 LX BARE	£195
80MB HD	£295
160MB HD	£359
200MB	£459
TRIFECTA 500 EC BARE	£145
80MB HD	£279
160MB HD	£339
200MB HD	£419
AD IDE 2 PRIMA BARE	£70
80MB HD	£245
160MB HD	£309
200MB HD	£399
PRIMA 3.5" MOUNTING KIT	£29
AD IDE 2 NOVIA 60MB HD	£259
80MB HD	£299
130MB HD	£379
212MB HD	£499
NOVIA 2.5" MOUNTING KIT	£19
ADSPEED AMIGA	£119
FLICKER FREE VIDEO 2	£185

ELECTRIC FINGERS CLUB

The Power BBS is a bulletin board service. Phone 0234 841503. Speeds up to 16.8K

SUPRA MODEMS

SUPRA FAX MODEM+ (INCLUDING PSU, CABLE AND SOFTWARE)	£119
SUPRA FAX MODEM 32BIS	£249

HOME MUSIC KIT

HOME MUSIC KIT	£69.95
MIDI INTERFACE	£15.95

GVP A530 TURBO HD

A 40 MHz 68030 EC accelerator.

80MB HD 0MB RAM	£549
160MB HD 0MB RAM	£649
200MB HD 0MB RAM	£699
68882 UPGRADE KIT	£224

GVP SERIES 2 HD

External hard drive for the Amiga 500. Expand up to 8MB on-board.

80MB HD	£339
160MB HD	£409
200MB HD	£599
EACH 1MB X 8 SIMM	£30

CHIPS AND SPARES

We stock a wide range of parts and spares.

1MB X 8 SIMM	£30
4MB X 8 SIMM	£POA
SIMM 32 X 1MB-60 GVP	£59
SIMM 32 X 4MB-60 GVP	£179
SIMM 32 X 4	£159
SIMM 32 X 8	£369
256K X 4 DRAM	£5
1MB X 1 DRAM	£4.50
1 X 4 ZIP	£14.95
1 X 4 DIP	£19.95
PCMCIA 2MB	£149
V1.3 KICKSTART ROM	£24
V2.04 KICKSTART ROM	£32
FATTER AGNUS 8372	£30
BIG FAT AGNUS 8375	£40
HI-RES DENISE	£25
GARY	£19
PAULA	£25
6570-36 KEYBOARD CHIP	£19
CIA 8520	£9.95
DATA SWITCHES 2 WAY	£15.99
DATA SWITCHES 3 WAY	£17.99
DATA SWITCHES 4 WAY	£19.99
MODEM CABLE	£9.95
PRINTER CABLE	£6.95
SCSI CABLE	£9.95
IDE CABLE FOR A600, A1200 INC. INSTALLATION SOFTWARE	£15.95
A500 POWER SUPPLY	£39.95
WORKBENCH 2.04 KIT	£75

MISCELLANEOUS

POWERMOUSE	£15
OPTICAL MOUSE	£29.95
REPLACEMENT OPTICAL MOUSE MAT	£10
100 BRANDED DISKS + BOX	£69.99
10 BRANDED DISKS	£9.95
A1200 DUSTCOVER	£5
AVIATOR 1 JOYSTICK	£35
INTRUDER 1 JOYSTICK	£29.99
MAVERICK 1 JOYSTICK	£15.99
PYTHON 1 JOYSTICK	£9.99
APACHE 1 JOYSTICK	£7.99

delivery 24hr £4.50 48hr £2.50
parcel post £1 (UK mainland only
orders under £50)

POWER OPTICAL DRIVE

Fit 128MB on one Optical disk.

128MB OPTICAL INTERNAL	£849
128MB OPTICAL EXTERNAL	£999
128MB 3.5" OPTICAL DISK	£39.95
SCSI CONTROLLER A2000	£129

VIDEO BACKUP SYSTEM

Use a VCR as a backup storage device, 200 Amiga floppy disks fit on to a 4Hr tape which can be used for an alternative hard disk backup system. Whats more, you can watch television on your 1084S monitor.

VIDEO BACKUP SYSTEM	£59.95

BARE SCSI HARD DRIVES

We can supply SCSI or IDE 3.5" drives in many sizes. These hard drives are suitable for GVP G-Force, GVP or ICD.

80MB	£179
160MB	£249
200MB	£349

2.5" IDE INTERNAL HD

Miniature hard drives for the A600/A1200 these drives come complete with a cable and installation software.

60MB INTERNAL HD	£179
80MB INTERNAL HD	£210
130MB INTERNAL HD	£299
170MB INTERNAL HD	£365
212MB INTERNAL HD	£430

GVP A2000 HARD CARD

High quality SCSI hard card.

BARE	£129
80MB	£279
160MB	£349
200MB	£419

AUTO ROM SHARER

One of the most advanced Rom sharers.

ROM SHARE	£19.95
ROM SHARE INC. V2.04	£50
ROM SHARE INC. V1.3	£39
ROM SHARE A600	£29
ROM SHARE A600 INC. V1.3	£55

Power Computing Ltd
Unit 8 Railton Road
Woburn Road Ind. Est.
Kempston Beds
MK42 7PN

Tel 0234 843388
Fax 0234 840234

Cheques payable to Power Computing Ltd.

Goods are sold subject to our standard terms and conditions of sale and are available on request.

Specifications and prices are subject to change without notice. All trademarks are acknowledged.

All prices include VAT.

tel 0234 843388

CU AMIGA CONTENTS

42 A DIFFERENT PERSPECTIVE

Why settle for two dimensions when you can have three? 3D graphics are really taking off on the Amiga, but if you don't know your texture maps from your polygons, where do you begin? Right here of course! Take part in the trip through all the strange and wonderful virtual worlds, as the CU AMIGA team take the mystery out of rendering, ray tracing and 3D modelling. Once you've got genned up on the finer points, take your pick of the software under the microscope in our exhaustive buyer's guide to Amiga 3D packages.

AMIGA
Workshop

163 AMIGA WORKSHOP

A regular little goldmine of information, the Amiga Workshop is crammed full this month. The immensely popular *Deluxe Paint* tutorial reaches part nine this month, while the equally in-demand *Video Titler* series is hanging in there with its fourth installment. AMOS fans get another helping of practical progamming tips, and help is also at hand for anyone struggling with the intricacies of *Hyperbook*. DIY continues the Build Your Own Robot series, and after all that there's still room to squeeze in Q+A and the Comms column.

REGULARS

9 **NEWS**
Full Motion Video materialises, plus the low down on all the latest developements on the Amiga scene...CD32 launch fiasco, machines sold with out any software...New Commodore bundles announced...*Spotlight Amiga Show* announced... Electronic Arts abandon Amiga and PC floppies!

22 **COVERDISKS**
See panel on opposite page.

32 **THE CUAMIGA INTERVIEW**
We gathered a bunch of the most experienced characters from the Amiga market, locked them in a room, plied them with alchohol, and let the rants begin. Discover what the future holds in the first part of a mini series.

54 **GAME PREVIEWS**
See panel on opposite page.

71 **GAME REVIEWS**
See panel on opposite page.

108 **PRODUCTIVITY REVIEWS**
See panel on opposite page.

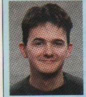
144 **ART GALLERY**
CU AMIGA readers show off their artistic tal nts with another showcase of Amiga graphics.

150 **PD SCENE**
Check out that 242 demo for starters, then get stuck into the rest of the free games, demos, animations and music disks.

155 **PD UTILITIES**
This month, we've got a diskmag creator, an alternative Star Trek Workbench and the fastest fractal generator ever seen on the Amiga. All of that and more, and it's all virtually free!

OFF THE CUFF

EDITORIAL


Dan Slingsby – Editor

By the time you're reading this, initial supplies of Commodore's world-beating console, the CD32, will be on sale in a computer shop near you! This really is make or break time for the Big C, so fingers crossed that the machine will be a big hit. The initial games bundle includes Flair's *Oscar* platform game and Millennium's *Diggers*, both of which we took a look at last issue. Although they're not state-of-the-art by any means, they are fairly playable affairs, and its better than no software at all (which happened when Rumbellows jumped the gun and decided to start flogging the machine without any accompanying discs. See our news story for more info on that little fiasco!)

In other news, CU Amiga has just recorded its highest ever ABC. Thanks to YOUR support, we've crashed through the 100,000 barrier and now sell a staggering 111, 408 copies each and every month. It looks like the recent changes we've made to the mag are starting to pay off, and the extra boost to our circulation means we can invest even more money in the title and bring you the BEST coverdisks of any Amiga magazine. We've just signed up some quite spectacular programs for the next few months – but we'll be telling you more on exactly what we've got in store for you in next month's issue!

Finally, I'd like to extend my heartiest congratulations to two ex-CU Amiga people, Tom Glenister and Becky White, who recently got married. Of course, the CU team were out in force, drinking all the free beer and champagne that was on offer, and blubbing into their dirty hankies during the ceremony. So all the best, Tom and Becky, and keep in touch. Blimey, I'll be doing dedications next...

NEXT ISSUE ON SALE 19TH OCTOBER

EDITOR Dan Slingsby **DEPUTY EDITOR** Jon Sloan **TECHNICAL EDITOR** Mat Broomfield **ASSISTANT TECHNICAL EDITOR** Tony Horgan **PRODUCTION EDITOR** Lisa Collins **GROUP ART EDITOR** Gordon Barrick **TECHNICAL ADVISOR** John Kennedy and Paul Eggleton **DISK COMPILER** Kenny Grant **DESIGNER** Jo Winslow **GROUP AD MANAGER** Nigel Taylor **AD MANAGER** Sean Collings **SALES EXECUTIVES** Chris Perera & Kiera Roche **AD PRODUCTION** Tina Gynn & Robin Ryan **MANAGING EDITOR** Steve James **PUBLISHER** Garry Williams

CU AMIGA Offices Priory Court, 30-32 Farringdon Lane, London EC1R 3AU. Tel: 071 972 6700 FAX: 071 972 6701. *Distribution* BBC Frontline Ltd, Park House, Park Road, Peterborough PE1 2TR. Tel: 0733 555161. *Subscriptions and Back Issues* Tower Publishing Services Ltd, Tower House, Sovereign Park, Market Harborough, Leics LE16 9EF Tel: 0858 468811 **PRINTED IN THE UNITED KINGDOM**

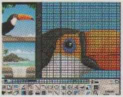
AE 111, 408
Jan-June 1993

GET SERIOUS

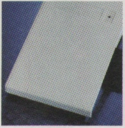
PRODUCTIVITY REVIEWS PRODUCTIVITY REVIEW

Star of the show this month is *Brilliance* – could it topple the mighty *Deluxe Paint* from its perch? Find out on page 110. There are also two budget genlocks tested, we take a look at some exciting new PCMCIA hard drives, and uncover the electronic highway of the Wired World.

108 LOLA 520 MODULATOR
108 MEGAMOUSE 400
108 NEXUS PRO VIDEO CLIPS
109 ACCESS AMIGA
109 ACC HARDWARE PROGRAMMING MANUAL
109 MASTERING AMIGADOS 3
110 BRILLIANCE
120 MINIGEN PROFESSIONAL
121 MINIGEN
122 QUARTERBACK TOOLS DELUXE
124 OVERDRIVE
126 COLOUR SCANNERS
132 WIRED WORLD



Bloody *Brilliance*! That's Digital Creations' stunning new art package. Page 110.



Going into Overdrive – the world's first external PCMCIA hard drive for the A1200.

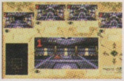
SCREEN SCENE

GAME REVIEWS GAME REVIEWS GAME REVIEWS

It's a game Jim, but not as we know it. *Star Trek* hits the Amiga, and as usual CU brings you the exclusive first review. Is it all it's been cracked up to be, or is it a pile of Kirk? Turn to page 71 to find out. Following up close behind is *Space Hulk*, a strong contender for RPG of the year. For the more trigger happy there's *D-Hero* and *Yo Joe!*.

71 STAR TREK
82 SPACE HULK
87 F-17
90 HIRED GUNS
92 YO JOE!
94 D-HERO
95 PREMIER MANAGER
98 CHASE HQ 2
98 HARDBALL
99 MEAN 18
99 FIST FIGHTER
103 TROLLS HEAD

Beaming down to an Amiga near you – Interplay's *Star Trek* blockbuster.



Aliens meets *Space Crusade* in EA's latest blockbuster conversion of *Space Hulk*.

COVERDISKS

Have we got disks for you? We certainly have! While others short-change their readers with save-disabled cut down programs, CU AMIGA brings you a never before released *update* update of Flexidump, plus an action-packed game disk that's miles ahead of the rest.

DISK 66

PAGE 22

Flexidump 2.5 really is something a bit special. Not only is it a complete, fully-functioning, bells-and-whistles-included program, it's actually an exclusive update on the previous commercial release version 2! Anyone with a printer will find *Flexidump* an invaluable tool, particularly when outputting graphics. We've all struggled and toiled with those awkward printer settings, tinkered for hours with dip switches and preference set-ups, but now thanks to *Flexidump*, all your printer troubles could be over. Even if you don't have a printer, *Flexidump* will still come in very handy as an image processor. The simple mouse-controlled interface will have you tweaking palettes and separating colours within minutes, and your printer will be in heaven!

66
AMIGA
FLEXIDUMP 2.5
COMPLETE PROGRAM
WORTH £50
PLUS!

DISK 67

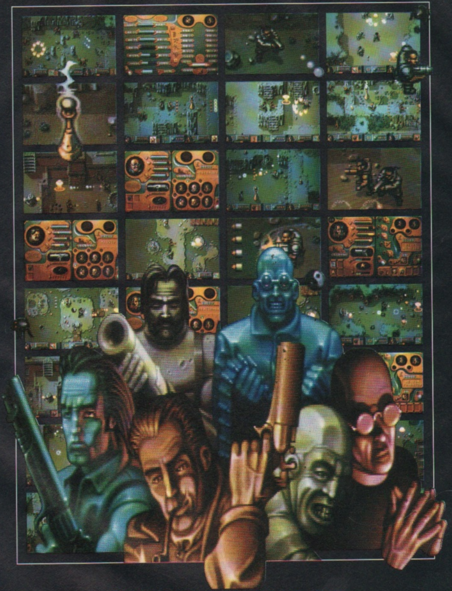
PAGE 24

Wonderdog is about to become the latest platform cutie sensation, and we've got you a sneak preview with this completely playable full level of the game. Marvel as he takes to the air with his magical flying ears, step back in amazement as he deals rough justice to the baddies, and exclaim "Blimey! That's good!" as you play the game for yourself. Yes, once you've seen this, you'll believe a dog can fly. As if that wasn't more than enough, we also give you another playable demo, this time of the addictively simple *Mean Arenas* – it's pure unadulterated arcade fun all the way with this one. It doesn't stop there either! Somehow we've crammed a complete game on there too: *Zerberk*. A classic from the dawn of arcade games, this one's bound to have you up and zapping right into the wee small hours. Don't just sit there, load it!

67
AMIGA
WONDERDOG
MEAN ARENAS
1Mb ONLY

· The Bitmap Brothers ·

THE CHAOS ENGINE



· TIME FOR CHAOS ·

Atari ST (STE Enhanced), 1Meg Amiga & PC · 1 or 2 Player

C1, Metropolitan Wharf, Wapping Wall, London E1 9SS. © 1992 The Bitmap Brothers. Published by Renegade.
Tel: 071 481 9214 · Fax: 071 480 5690

CU NEWS

THE CD32 MUSEUM

No, they're not mothballing the CD32 yet. Far from it in fact. Although Commodore have been touting their new machine as a games console, its multimedia capabilities and applications are immense; the machine is already making inroads into commercial activities.

As part of a £4 million redevelopment, The London Transport Museum is taking the opportunity to introduce state-of-the-art interpretation techniques to their displays. At the heart of many of the new displays will be the *Commodore CD32.* Its high quality graphics, double-speed CD drive, powerful 32-bit processor and custom display hardware provide the ideal platform for Audio Visual and Interactive Displays (AVIDs).When completed, up to 109 CD32s will be used to provide Interactive Information, video, animations, interactive sound effects, display control and background sound effects.

All machines will be networked using a professional expansion system currently being developed by Index Information Ltd, the company producing all the computer displays.

"The plan is to re-equip the London Transport Museum centre so that it can communicate more effectively with a new generation of visitors. We plan to take this opportunity to introduce new methods of interpreting the collection, using the latest developments in design, graphics, audio visual and interactive displays," said Rob Lansdown, head of Communications and Display for The London Transport Museum.

"In a fresh look at the way the Museum tells the 200 year story of London's urban public transport, we have taken the linear, chronological, sequence of story panels off the walls and associated them directly with the objects in the collection. In this non-linear, object-oriented approach we will create 'islands' of interest and ensure that the vehicles and other original material tell the story.

"The visitor becomes free to explore the Museum and its collection and stories in a non-linear way, letting their own particular interest lead them around the Museum. Visitors will choose their own priorities and interests, navigating between the principle story 'islands' to follow, say, a social history or a technological theme.

"The multi-media world has already experimented with the idea of a Hyper-Museum in the form of a virtual museum on videodisc, CD-ROM and hard disk. Our intention is to take this concept one step further. We want to take this Hyper-media and use it to go beyond the database to interact with, and interpret, a real museum. Instead of visitors just being shown images of the collection as you Hyper-link around the disc, we will take you to the actual objects! In the real object-based Museum the visitor can wander through the displays, dipping into the electronic Hyper-Museum when they want to.

"As the Museum's core displays will also be written in a non-linear style, the electronic sections will form an integral part of the whole interpretation, adding a further dimension to the visitor's experience," he added.

The monitoring and control network is an essential element because of the major use being made of computers throughout the museum, it will allow them to be managed and maintained efficiently. The network will detect any machine failure within seconds and notify the central monitoring machine.

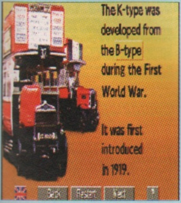
As well as the maintenance of the machines' operations, volume control (including silencing of all machines quickly should an emergency occur), software updates and usage logging can be carried out with ease. The centralisation of all machines within one room ensures any machine can be replaced in seconds.

"Many of the qualities that will make the CD32 such a successful home entertainment system also make it the ideal commercial multi-media player," said Mick Tinker, Technical Director of Index Information Ltd.

"A high quality and low cost delivery unit combined with a powerful development platform is allowing us to provide advanced displays at much lower costs than competitive systems.

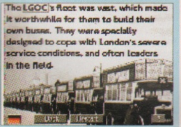
"We have had a very positive response from early demonstrations of the projects, we feel that the concept will attract the attention of Museums and visitors from around the world.

"One of the new Underground Train simulators was shown at an exhibition and ever since the Museum has been receiving regular requests from companies wishing to hire the display for their own exhibition stands!' he said.



The K-type was developed from the B-type during the First World War.

It was first introduced in 1919.



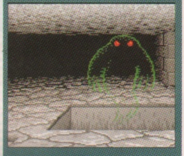
The LGOC's fleet was vast, which made it worthwhile for them to build their own buses. They were specially designed to cope with London's severe service conditions, and often leaders in the field.

CD32 FMV CARD

Commodore have unveiled the new Full Motion Video module for the CD32 console. Set for an October release, the add-on will retail at £229, which is an excellent price point for technology light years ahead of the competition. To display the potential of the FMV cartridge a music video disc will be included in the package. In addition, if you purchase the 32-bit console at the same time you'll get a £30 discount on the overall price. This carefully chosen subsidy will take the total cost for the two pieces of hardware to £498.

The bad news on the keyboard, mouse and external drive add-ons is that they won't be available until early '94. This seemingly late delivery is not down to lack of components, in fact the add-ons are in production already, it is more a question of marketing focus. Commodore intend to initially push the CD32 as a games machine and don't want anything to detract from that aim. Ring Silica for more information on 081 309 1111.

DUNGEON MASTER



No, it's not a story about *Chaos Strikes Back* which, after all, was more an expansion than a sequel. After more than five years Fast Than Light (FTL) are finally going to deliver a true sequel to argu- ably the best role-playing game ever.

Originally appearing on the Atari ST in 1988, *Dungeon Master* is the classic standard against which all subsequent RPGs have been measured. It's no surprise then that a sequel is in the offing – but five years later!

Developed by the same team as the original, DMII looks at first sight like a direct copy. However, the changes to the game can be found once play begins. Promising truly intelligent monsters that chase you down and go off to get help when outnumbered FTL even claim that the game's artificial intelligence has had to be toned down because the monsters were too smart!

A publisher for the Amiga version hasn't been fixed yet but we'll bring you more details when we have them.

»

CHRISTMAS LINE-UP

Commodore have admitted that last Christmas they had too many different Amigas on sale which served to confuse both retailers and buyers. This year they will be concentrating on three packages – the CD32, the CD32 plus FMV bundle, and an A1200 bundle. This means that once current stocks of stand alone A1200s have been run down it will only be available as part of a bundle.

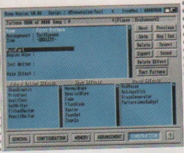
This package, called Desktop Dynamite, will be priced at £349.99 and contain the machine plus *Wordworth AGA*, *Print Manager*, *DPaint IV AGA*, *Oscar* and *Dennis the Menace*. With over £310 worth of software it appears to be a good bargain, however for the game heads out there it remains to be seen whether both *Oscar* and *Dennis* will live up to their initial promise.

HARLEQUIN GETS V-LAB

Britain's foremost 24-bit board, the Harlequin Plus, has just become even better value thanks to Xi Electronics Ltd. The board includes a genlock, 8, 15 and 24-bit colour modes with palette mapping and an optional 4-bit overlay independant of the main display.

At £1275 the board already represents significantly greater value for money over its predecessor, but with the addition of the V-Lab Y/C framegrabber it becomes exceptionally reasonable.

Contact Xi on 0383 881768 for details.



NEW DEMO MAKER

The original *DemoMaker* program was one of the most popular DIY programs ever for the Amiga, and now a new outfit called Complex Software from Germany have released what they claim is an even better program. *DemoManiac* can be used to create music demos, slide shows, disk magazines and multi-media presentations.

Better yet, the program can be used to create demos whose origins are completely unrecognisable. Apparently the program is very easy to use and will be distributed by Kompart UK. Phone Kompart on 0727 868005 for details.

ELECTRONIC ARTS ABANDONS AMIGA AND PC FLOPPIES

In a surprising move, CU Amiga can exclusively reveal that Electronic Arts will shortly be abandoning all floppy development and, instead, redirecting their efforts into cartridge and CD development. Although the CD market has yet to establish itself as a viable market, EA have reportedly decided to run down the floppy side of their business because of the dramatic increase in piracy over the last few years. Moreover, the increasing complexity of programs has meant many games and applications appear on a number of floppies, dramatically increasing costs. Whether this decision will put in danger the release of *DPaint 5* is unclear, as Electronic Arts were unavailable for comment at the time of going to press.

WE NEED YOU CU Amiga welcomes any hot news or show details that you may have. Send them to NEWS, CU Amiga, Priory Court, 30-32 Farringdon Lane, London, EC1R 3AU. Alternatively you could fax information to us on 071 972 6701. If it's really important, you could phone us on any Friday to let us know what's up.

CD ROM GROUP OPENS DOOR TO CD32

The CD ROM User Group (UK) is an organisation whose main aims are to provide information and technical assistance .
regarding CD ROM technology and to provide a source of discounted multimedia hardware and software.
With the uncertain future of the CDTV the group's value to Amiga owners was in doubt, but since the launch of the CD32,
the group's commitment has received an infusion of enthusiasm. Membership costs £24.99 per year and apart from the above
mentioned benefits, this fee entitles you to a monthly newsletter containing product reviews, free competitions, reader's let-
ters, charts and a variety of dedicated CD ROM and multimedia information. The group also provides a software exchange
and discount service (copyright permitting) whereby members can swap titles or buy them cheap.
Although there's not much dedicated CD32 software available at the moment, a lot of CDTV stuff will run on the machine
so the group is well worth considering whether you own a CDTV, an A570 drive or a CD32 console.
Find out more by contacting: the CD ROM User Group (UK), 19 Faygate Close, Bexhill, East Sussex, TN39 5EE. Tel: 0424
730326.

32bit
AMIGA CD

AMIGA BBC?

The BBC appears to be backing the Amiga to the hilt with two programs recently using or featuring Amiga technology.

The first, System '93, is a children's outdoor challenge game show currently running on BBC2 on Sunday mornings. International teams of children, aged from 9 to 13 years, join together to take part in a series of mental and physical agility tests – something like The Krypton Factor. Being an international game it's played without any formal commentary 'cos it would be impossible to select an appropriate language. Instead, an animated character called Herman, created on an Amiga, uses symbols and pictograms to lead the competitors and audience through the game.

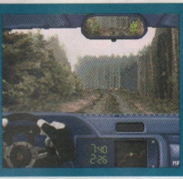
Herman was created by Herman Charles Serrano who is also responsible for the graphics in *Predator 2* and *Wreckers*. He used an '040 A4000 so that he could utilise full 32-bit 256 colour and have him running at 25 fps.

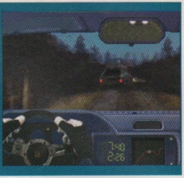
The second series, called Harry, hasn't started its run yet but is lined up as one of the Beeb's premiere Autumn shows. Set in the North of England it stars Michael Elphick as a seedy newspaper reporter. It will feature special effects work by Ira Curtis Coleman, a professional Amiga user who was featured in our June issue. Additionally, one of the scenes in the show depicts a young boy at home playing on his Amiga. If you look carefully you should be able to see a certain famous Amiga magazine in his room!

RALLY HO!

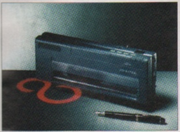
Europress Software is about to release the official RAC Rally simulation. Timed to coincide with the race in November, *Rally* will be the second official RAC licence that Europress have produced. The original was published five years ago and sold phenomenally well with total sales over 100,000. Europress are putting a great deal of time and effort into *Rally* to ensure that it achieves the same kind of success.

The game itself will be a 3D race around snowy Welsh hillsides, forests and bleak moorlands. Featuring actual digitised shots of all the participating cars' interiors as well as sections of the route, *Rally* could be the first true driving sim on the Amiga. Programmed in 256 colours it will also include digitised speech from your co-driver and sound effects from the car and road. A standard 16 colour version will also be available. Look out for a full review soon.





LASER QUALITY PORTABLE



Fujitsu Europe have just launched a new portable printer which weighs only 1.2kg and which claims true laser quality from its 360 DPI output.

At only one inch thick, the device can rightly claim to be one of the world's slimmest portable printers. Named the Joyriter (no 'W'), the thermal transfer device is ideal for people on the move. It has a footprint less than one quarter of an A4 page in size, yet is capable of handling up to 20 sheets of paper with its optional sheet feeder.

Just to prove that they care about the environment, Fujitsu say that the ribbon cartridge uses eco-friendly replaceable ribbons. At £319 ex VAT the printer isn't too damaging to your wallet either!

For more details contact Fujitsu on 081 573 4444.

NEW LOW COST A1200 RAM

Silica Systems have announced that they will be distributing what is probably the world's cheapest A1200 RAM expansion board. The Amitek RAM comes unpopulated (it doesn't have any memory on it) for only £79.95. You can then add up to eight megabytes of RAM in the form of SIMMS.

The Amitek RAM also has space on it for a maths co-processor running at speeds between 25 and 50MHz. As Silica's Andy Leaning says 'Many people who own an Amiga 1200 will have upgraded from a 500 and will already have SIMMS that they used with their A500 peripherals. This way they don't waste those costly chips.' If you don't already have any SIMM chips, you can buy them from a wide variety of sources, although prices at the moment are artificially high thanks to a fire that destroyed a factory that makes the glue used in half the world's supply of chips.

For more detail on the Amitek RAM phone Silica Systems on 081 309 1111.

IMAGINARY FRACTALS

Version 4 of the *Scenery Animator* has just been released, and it has some exciting new features. Like *Vista Pro*, the program is a fractal landscape generator capable of generating complex animations. However, the program is unique in that it can import 3D objects (such as those created by *Imagine* or *Real 3D*. These objects can then be manipulated as part of an animation, giving the opportunity to create entire movies with the package.

The program also includes real-time editing and AGA support including 24-bit framebuffers. It costs £67.99. For details phone 0532 319444.

AMOS GETS NEW COMMANDS

Thanks to Solaris Software, AMOS users can now add an extra 160 commands to their program. A new program called *Craft* forms an extension to the existing AMOS system. Among other things, the new commands add Protracker and Soundtracker module control and a variety of Fractal/mandelbrot processing options.

Craft will be distributed by Kompart UK. Tel: 0727 868005.

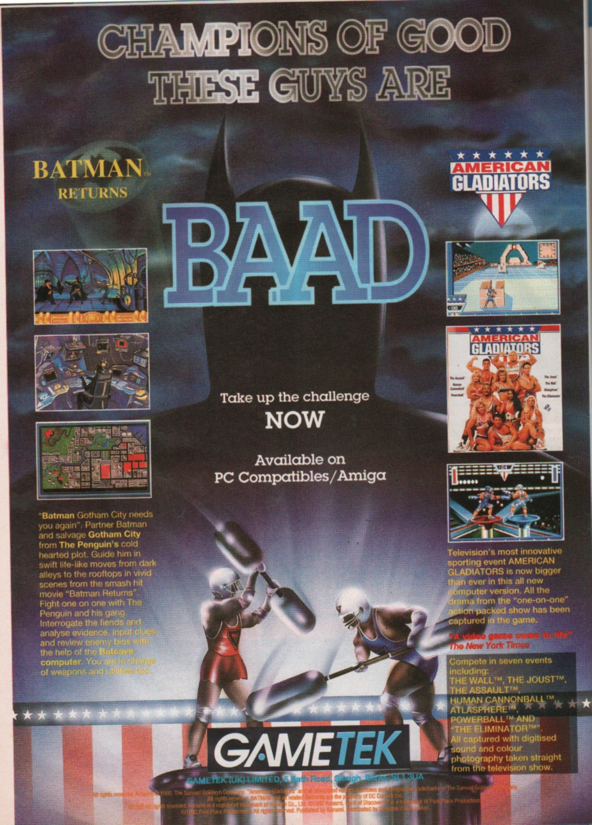
ULTRA FAST MODEMS A STEP CLOSER

Hayes Microcomputer products have just announced their plans to provide high speed data and fax modems that support V.Fast Class (V.FC) modulation for 28.8kbit/s data transmission. In ordinary language, that means that they are going to make some bloody fast modems!

As one of the larger players in the world modem market, Hayes has been working on high-speed transmission techniques for over seven years, and in 1992 they got together with Rockwell International to develop high speed 'data pump' technology.

Although they demonstrated that such devices were feasible by showing a 28.8k/bit modem last year, no standard had been agreed for the data format. One of the more serious problems in the 9600k/b modem market is incompatibility between different products and although standards have been proposed for the new 28k/bit modems nothing has yet been agreed. Therefore Hayes and Rockwell have collaborated in the development of an interim standard which has resulted in file transfer throughputs (presumably on Local Area Networks) of up to 115.2 kilobits.

To find out more about this technology contact:
Hayes at Millennium House, Fleetwood Park,
Barley Way, Fleet, Hants, GU13 8UT. Tel: 0252 775500.



CHAMPIONS OF GOOD THESE GUYS ARE

Take up the challenge
NOW

Available on
PC Compatibles/Amiga

"**Batman** Gotham City needs you again". Partner Batman and salvage **Gotham City** from **The Penguin's** cold hearted plot. Guide him in swift life-like moves from dark alleys to the rooftops in vivid scenes from the smash hit movie "Batman Returns". Fight one on one with The Penguin and his gang. Interrogate the fiends and analyse evidence, input clues and review enemy bios with the help of the **Batcave computer**. You are in charge of weapons and utilities too.

Television's most innovative sporting event AMERICAN GLADIATORS is now bigger than ever in this all new computer version. All the drama from the "one-on-one" action packed show has been captured in the game.

"A video game come to life"
The New York Times

Compete in seven events including:
THE WALL™, THE JOUST™,
THE ASSAULT™,
HUMAN CANNONBALL™,
ATLASPHERE™,
POWERBALL™ AND
"THE ELIMINATOR™".
All captured with digitised sound and colour photography taken straight from the television show.

GAMETEK

GAMETEK (UK) LIMITED, 5 Bath Road, Slough, Berks, SL1 3UA

All rights reserved. Artwork © 1992 The Samuel Goldwyn Company. "American Gladiators" and all associated names, likenesses and designs are trademarks of The Samuel Goldwyn Company.
All rights reserved. BATMAN and all related elements are the property of DC Comics Inc.
©1992 All rights reserved. Konami is a registered trademark of Konami Co., Ltd. ©1992 Konami. [illegible] is a trademark of Park Place Productions
©1992 Park Place Productions. All rights reserved. Published by Konami. Distributed by Gametek (UK) Limited.

PAL VIDEO TOASTER RUMOURS SCOTCHED

Rumours have been flying thick and fast this month about the existence of a PAL version of the American effects machine, the Video Toaster. In fact, no PAL version of the machine exists anywhere in the world, but a number of resourceful people are creating their own versions using standards convertors.

John of the 24-Bit Club in Scotland describes his attempts to get the Toaster working in PAL...

'After receiving a deafening silence from Newtek on the possibility of using the Toaster with a PAL A2000 motherboard, I ordered my Video Toaster and an NTSC A2000 motherboard from the States. In addition, I also needed a personal time-base corrector and this brought the total project price up to £1700.

A trip to Tottenham Court Road and I was able to get two Panasonic NV-W1 multi-standard video recorders for about £3000. This was the cheapest option at the time.

The Toaster software came on 8 disks and was very easy to set up. Now came the moment of truth: connecting VCR 1 (PAL/NTSC) to input 1 (after time-base correction) and connecting VCR 2 to the program output. Would it work?

My fears were groundless because everything worked first time. With this configuration multi-video effects (Toaster Effects) were not possible but I could still do effects between the Toaster's frame-store and a single video.

The main advantage of the system is that I now have access to *Lightwave*, the incredible 3D package that comes with the Toaster. *ToasterPaint* is really *Digipaint* under a new name. The character generator comes with a great supply of fonts and produces excellent titles. The frame grabber is one of the best that I've seen and the motion removal is first class.

True, the system was expensive to set up (nearly £5000), but it's paid for itself and my A4000/040!"

US distributors, Micropace, are the largest Video Toaster dealers in America and it seems that their UK division is looking into the possibility of shipping an integrated NTSC Toaster complete with Transcoder or standards convertor. The idea is not yet definite and obviously no prices have been set.

One piece of news that we can announce unequivocally is the arrival of the Screamer, a 3D rendering engine for the Toaster. The Screamer is a glorified processor dedicated to 3D rendering via the Toaster. What makes it special is its absolutely mind-numbing speed. With a clock rate of 150MHz controlling four 64-bit RISC processors the machine can render at twice the speed of a Cray Supercomputer!

With memory upgradeable to one gigabyte (that's over a thousand megabytes to you), there's room for the most demanding of Spielberg creations.

Compared to the millions of dollars required to own a Cray, the Screamer's ten thousand dollar price tag seems quite reasonable. Contact Micropace on 0753 551888.

FREE HARDWARE FROM SUPRA CORPORATION

In a virtually unheard of move from hardware manufacturers, Supra Corporation are offering free upgrades to their SupraFAXModem V32/V32bis.

The offer applies to those modems purchased before September 15th 1992, but you can check whether or not you're eligible by typing AT13 to find out which ROM yours uses. If yours has a number 1.2H or 1.2J, then you already have the latest hardware. If not then you can claim your free upgrade (which comes in the form of an easy-to-plug-in ROM chip).

The new chip offers a number of performance enhancements as well as a couple of wholly new features. The enhancements include automatic decrease and increase of communication speeds according to phone line conditions and enhanced fax machine capability.

One of the nicest new features is called Silent Answer and it's a handy way of using a single line for both fax and voice transmissions. The hardware automatically detects whether an incoming call is a fax or voice signal and routes the call accordingly.

There are three ways of ordering the upgrade if you qualify:

1. Request the upgrade on the Supra forum of Compuserve (type GO SUPRA to enter the forum). 2. Order from the Supra BBS. Its phone number is 0101 503 967 2444. 3. Write to ROM Upgrade, Supra Corporation, 7101 Supra Drive SW, Albany, OR 97321, USA.

THE ULTIMATE DTP PACKAGE

The long running battle between Gold Disk's *Professional Page* and Soft Logik's *Pagestream* is about to take an interesting turn with the release of *Pagestream* v3.0.

In a feature by feature comparison chart, *Pagestream 3* leaves *Professional Page* for dead on just about every one of the 130 or so points that were raised. Even more exciting from an Amiga user's point of view is the fact that the package was also compared against *QuarkXPress 3.1*; the premier desk top publishing package on the Apple Macintosh. Despite the fact that the Mac is traditionally thought of as the DTP machine, *Pagestream 3* again clearly emerged as the superior package. The software will retail for $395 (£200-300 depending on the exchange rate), and upgrades will be available from earlier version from $95 upwards.

You can find out more by contacting Soft Logik's UK distributor Merdidian at East House, East Road Industrial Estate, London, SW19 1AH. Tel: 081 543 3500.

TYPESMITH GETS A QUICK UPDATE

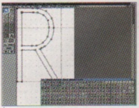
Although the original was only released a couple of months ago, version 2.0 of *Typesmith*, the scalable font creation program, is to be released in September.

The new program can auto-trace bitmapped fonts so that they are instantly converted in scalables. It's also up to 100% faster, especially on slower Amigas.

Typesmith 2 now includes hinting which is a special feature that ensure that serifs and stems look great even at small point sizes. With its switchable auto-hint option you don't even need to worry about how hints are created; the program does it all for you. It will also retain the hints of any fonts that you import for editing.

Another invaluable new option is the facility to create bitmapped screen fonts from your structured typefaces. These can be saved in a variety of formats for use with all DTP packages, or can even be saved as standard Amiga fonts. Bitmap pictures can be imported and saved as bitmap fonts and vice versa.

Upgrades from version 1 (or 1.1) will cost $50, whilst the standard retail price is $199.95.



You can find out more by contacting Soft Logik's UK distributor, Merdidian, at East House, East Road Industrial Estate, London, SW19 1AH. Tel: 081 543 3500.

Have YOU got what it takes ?

ALIEN BREED 2... coming soon from TEAM17

TEL:0924 201846

»

SPOTLIGHT AMIGA SHOW

For the first time ever, there's a show that has been organised to cater primarily for the more cerebral Amiga user. The *Spotlight Amiga Show* will be held in London's Novotel; a fairly small but cosy venue. Organised by a cartel of manufacturers and distributors, the show aims to cater for all users, including those who are more interested in productivity than playtime.

With a range of products on display, you can expect to see both third party and original hardware including a variety of scanners, digitisers, hard drives, video equipment and other peripherals. It will also present one of the first chances to feast your eyes upon Commodore's stunning new CD32 games console.

The show will provide visitors with a unique opportunity to see demonstrations of software and hardware configurations, and they will even be able to ask questions directly to some of the industry's foremost experts, including technical and design staff from the world's most innovative hardware and software designers.

For video buffs, there will be a very rare chance to see the Video Toaster in action. This promises to be a particularly valuable experience in light of the fact that the Toaster looks as if it will finally go on sale here via distributors Micropace.

The show won't be just for window shoppers though, therell be a wide array of hardware and software bargains on offer, many at substantially reduced prices. Of course, the show won't be all work; you'll be able to buy the latest games thanks to the Meridian Software. Amiga Warehouse will be there showing the Amiga 4000 and a range of monitors from Commodore and Ibek. They'll also have the hot new art package, *Brilliance*, reviewed elsewhere this issue.

16/32, as one of the largest PD companies in Britain, will be launching their new catalogue of PD and Shareware. Golden Image will be selling their nine meg RAM expansions for the A1200, as well as two different colour hand scanners and a new optical mouse, whilst Gasteiner will be unveiling *True Paint*, another graphics package to rival *D-Paint*. Power Computing will also be selling RAM cards for all Amigas as well as their exciting new high density drives. Prima will be the first in Europe to unveil a new range of modems from a well respected American source, and they'll have the world exclusive on the Amiga scan convertor – a piece of kit that avoids the need for costly multi-sync monitors. Hi Soft will be selling Megalosound, their low cost, direct to disk recording system while Alfa Data Benelux will also be showing the hottest hardware from Belgium.

Other companies who will be there include Weekend Developments, Micropace, BSC, Syntronix and, most important of all, the CU Amiga crew will be out in force, ready and willing to help with your computing problems!

Spotlight Amiga Show, Novotel, London, 17th October. Tickets cost £1.50 in advance or there will be a limited number available on the day of the show. Tel: 081 885 5098 for further details or to order your tickets.

550 FREE TICKETS

Being the kind-hearted people that we are, we've managed to get our sticky mitts on 550 free tickets to the *Spotlight Amiga Show*. All you have to do to claim one is 'phone 081 885 5098, tell them that CU Amiga sent you and quote reference number: SAM1. If you're one of the first 550 people to phone, you'll get a free ticket to the show.

CITIZEN ANNOUNCE WORLD'S FIRST FULL COLOUR PORTABLE

Citizen recently unveiled their brand new Notebook Printer II, a 105 character per second thermal transfer printer that uses monochrome or colour ribbon to produce output at up to 360 dots per inch; higher than many laser printers.

With an optional cut-sheet feeder and battery back-up, to mention nothing of its international adaptor which handles power inputs between 90 and 260 volts, the printer is ideal for the computer user on the move. It has a recommended retail price of £349+VAT and you can get more details from Citizen at Citizen House, 11 Waterside Drive, Langley Business Park, Langley, Berks, SL3 6EZ. Tel 0753 584111.

EMC GETS FRIENDLIER

Premier font and clip art librarians, E.M. Computergraphic, are extending their standard service to offer new 'Pick'N'Mix' options on both scalable fonts and clip art.

The price per disk for these new tailored-to-suit services will be £7.50 and each disk will contain only the data that you specifically stipulate. For example, if you phone up and ask for pictures of the lesser spotted Peruvian water toad that's all you'll get.

EMC are also adding a massive amount of new material to their library in the form of 41 volumes of IFF clip art, 5 volumes of Adobe type 1 fonts, 6 volumes of CGfonts, 2 new .IMG clip art volumes for *Pagestream* users and 30 volumes of 'stunning photorealistic 256 colour images' for Workbench 3 and 24-bit work.

To find out more contact E.M. Computergraphic on 0255 431389.

E.M.COMPUTERGRAPHIC
Dedicated to the promotion of
Desktop Publishing on the Amiga

EMC

UK and European Distributor for
COMPUTER SAFARI DTP Typefaces
and
licensed Gold Disk Inc. Distributor

8 Edith Road
Clacton on Sea Essex CO15 1JU
Tel : 0255 431389
Fax : 0255 428668

WEMBLEY
EXHIBITION
CENTRE
DATE:
FRI 29TH
SAT 30TH
SUN 31ST
October '93

Destination: Acorn World

If you thought computer shows only had the latest word processors and spreadsheets, Acorn World will change your perceptions....

See how a full colour magazine is produced. Experience the sights and sounds of a laser light show in the best games arcade in Britain. See Kodak convert a film onto a photo CD. Discover the secrets of the talking head. Catch a glimpse of the future in Acorn's concept area.

Meet the boffins from the Science Museum. Discover why children are jumping off cliffs as part of the curriculum.

New concepts • • •
New products • •
New solutions •

Acorn World: A TOTAL EXPERIENCE

Juggling, face painting, theatre seminars, special needs area... and the latest word processors and spreadsheets! And so much more...

Book today and SAVE £££s plus have the chance to WIN a fabulous Acorn Pocket Book.

Acorn WORLD 93

SPONSORED BY ACORN USER MAGAZINE

NAME ____________________

ADDRESS ____________________

____________________ POSTCODE __________

SAVE MONEY BY BOOKING TICKETS NOW

TICKET TYPE	PRICE	NO. OF TICKETS	AMOUNT
ADULTS	£5.00		£
CHILDREN	£3.00		£
FAMILY	£15.00		£
		TOTAL	£

All cheques made payable to Acorn Computers Ltd.

Please return your booking form to
ACORN WORLD, C/O
EXHIBITION PLANNING
SERVICES, PO BOX 162,
STAINES TW19 5JX.

CU 1093

TICKET HOTLINE: 0784 483818

WIN A POCKET BOOK!*

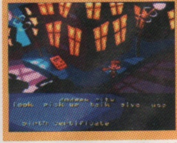
Return your booking form now and you will be entered in our special prize draw!

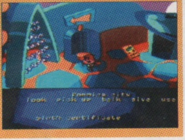
Competition details from the Acorn World address opposite. *No purchase necessary

Acorn

CODEMASTERS GO COSMIC

In a radical departure from their normal game style, Warwickshire-based softcos, Codemasters, have announced the release of a graphic adventure. Set to appear in November across most formats, *Cosmic Spacehead* tells the tale of a weird alien tourist who travels to Earth to prove its existence. Determined to grab the necessary evidence and return home a hero, Cosmic must travel across the galaxy, reach Earth and take home the goods. Using a 50s-style depiction of the future and space, *Cosmic's* graphics are just one of the elements that give this game an unusual feel. With a mix of arcade action and brain-straining puzzles it's sure to turn a few heads on release. Watch this space for more info next month. Codemasters can be contacted on 0926 814132.





AMIGA CHARTS
TOP TEN

Dino Dini's *Goal!* drops three places down to number four with two new titles claiming the coveted first and second spots. Team 17's budget racing game, *F17*, zooms to the top of the charts with Krisalis' superb platform kickabout, *Soccer Kid*, following close on its heels.

1. F17 Challenge (Team 17)
2. Soccer Kid (Krisalis)
3. Graham Gooch's Cricket (Audiogenic)
4. Goal! (Virgin)
5. Syndicate (Electronic Arts)
6. Nippon Safes (Kompart)
7. Flashback (US Gold)
8. Championship Manager '93 (Domark)
9. Gunship 2000 (Microprose)
10. Ishar 2 (Daze)

00-14.327
0.1553
01-59.44
END OF LAP
-0.3093
LAP
08.9
ESE
PIT

INTERWORD HD INSTALL

A number of readers have enquired about the possibility of installing InterWord on a hard drive. To install InterWord simply follow this procedure:

1. Create an InterWord directory (drawer) on your hard drive.

2. Copy all files from all four InterWord disks to the InterWord drawer on your hard drive. If you don't know how to do this follow this step by step guide. If you do, skip on to stage 3.

i) Open the Shell or CLI and type:

```
Copy Interword:(D#?|I#?) TO dh0:InterWord ALL Copy
Interword:#? TO dh0:InterWord
```

* Note. If you are using a different hard drive partition, insert the volume name of your hard drive everywhere that I've written dh0.

When you press return, you'll be prompted for the InterWord disk (disk 1). Insert it in the drive and all the files will be copied to your hard drive.

ii) Now type:

```
Copy "InterWord 2:#?" to dh0:InterWord
```

and again insert the disk when prompted.

iii) Type:

```
Copy "InterWord 3:#?" to dh0:InterWord
```

and insert disk 3 when prompted.

iv) Type:

```
Copy "InterWord 4:#?" to dh0:InterWord
```

and insert disk 4 when prompted.

3. Open the shell or CLI and type ED S/User-startup. If a user-startup file exists it will be loaded into the text editor ED. If no user-startup file already exists ED will open and create a blank one for you. Either way, you should now be faced by the ED screen ready for you to type.

4. Add the following lines to the user-startup file:

```
; Start InterWord Assignments Assign
InterWord: to DH0:InterWord Assign
"InterWord 1:" to DH0:InterWord Assign
"InterWord 2:" to DH0:InterWord Assign
"InterWord 3:" to DH0:InterWord Assign
"InterWord 4:" to DH0:InterWord ; End
InterWord Assignments
```

5. Select Save from the Project menu. 6. Once the user-startup file has been resaved, simply reset your computer, and from then on you'll be able to load the version of InterWord on your hard drive.

SHOW DIARY

Live '93 Consumer Electronics Show, Olympia, London 16-20th, September, Tel 071 782 6687.
Amiga 93, Paris, 23rd-25th October, +33 1 64 34 03 42.
Future Entertainment Show, Olympia, London, 11th-14th November, 0225 442244.
Christmas International Computer Show, Wembley, London, 19th-21st November, 081 549 3444
Supergames, Porte de Versailles, Paris, 24th-28th November, 010 331 42003305.
Virtual Reality User Show, Novotel, London, 29th November-2nd December, 081 994 6477.
Computer Shopper Show, Olympia, London, 2nd-5th December, 071 373 8141.

STAR GOES COLOUR WITH STYLE

Star have just released a high quality thermal transfer colour printer available to the well-heeled home user as well as the smaller home business. The SJ-144 can print at up to three pages per minute at a resolution of 360x360 dots per inch. What is particularly remarkable about the printer is its use of special inks which are completely smudge proof and can be used for professional printing onto clothing such as t-shirts.

Because it uses three coloured inks and a separate black the printer is particularly good at shading and its use of true colour pigments are exceptionally vibrant compared to ordinary dye-based inks.

The BBC Radio 1's
TV and Radio presenter

AMIGA CD32
FREE SOFTWARE
Lemmings, Oscar, Diggers
32bit
Commodore
AMIGA CD32
ONLY £289.99 with 3 great titles

The exterior may be sleek but lurking inside the Amiga CD32 is a technological wonder. At it's heart is the mightily powerful 68EC020 processor from Motorola. This contains the 32 - bit technology which has made the Amiga 1200 a runaway success throughout Europe.

Alongside it is Commodore's unique custom AGA (Advanced Graphics Architecture) chipset - comprising three chips nicknamed Paula, Lisa and Alice.

Together they make Amiga CD32 and awesome powerhouse of high speed graphics and stunning sound capabilities.

In fact, the machine can display 256,000 colours on screen (compared to Sega's Mega CD which can only display 64) and has a total colour palette of 16.8 million colours. Amiga CD32 also comes with a chunky 2 Meg of RAM (that's15 times more than Mega CD) and a double speed drive.

SPECIFICATIONS:

- ★ 14 MHZ 68EC020 processor
- ★ 2 Megs 32 - bit chip RAM
- ★ 2 Joystick ports/controller ports
- ★ S- video jack
- ★ Composite video jack
- ★ RF output Jack
- ★ Stereo audio jacks
- ★ Keyboard connector/ auxiliary connector
- ★ Full expansion bus
- ★ Headphone jack
- ★ Headphone volume control
- ★ External brick power supply
- ★ Internal MPEG FMV expansion capability
- ★ Multiple session disc capability

INDI DIRECT MAIL
Proudly Presents
THE
JAKKI BRAMBLES COLUMN

Hi, It's been quite a month in the Commodore marketplace, no sooner had we all been told that Commodore had lost their shirt than we have been inundated with masses of good news.

First we have the launch of **two brand new Commodore Amiga 1200 packs** one aimed straight for games market the other firmly at the more mature purchaser. **The Chartbuster Pack** is great value bundled with Nigel Mansell's World Championship race simulator, Trolls AGA and the all time favourite Amiga Challenge Pack. **Desktop Dynamite** reinforces the all round strength of the A1200 with a very powerful package based around Wordworth AGA, Print Manager, Deluxe Paint IV AGA, Oscar AGA and Dennis The Menace AGA.

It's good to see Commodore create such a clear distinction between the Amiga 1200 market and the games console market. soon to be dominated by the Amiga CD32.

As I write this article the first of the CD32's are about to land in the UKwith a promised street date launch of the **first week in September.** The major news around this product is just how many of the softwaRe publishing houses are enthusiastically writing for it and of course that Commodore have decided to bundle 2 great software titles at launch.

Not to be outdone **INDI have added a third** so look forward to receiving Oscar, Diggers and Lemmings when you take delivery of your New Amiga CD32.

The other item of news from Commodore does appear to be causing somE confusion. It is true that Commodore have appointed the giant **ICL** company to look after the warranty on their products but this only applies to Amiga CD32 and the Desktop Dynamite Pack. All other products and packs previously purchased or yet to be purchased will be covered by Wang.

Finally it was very sad to hear this week of the demise of Diamond Computer a well known advertiser in the Amiga Market. There is no doubt that the recession continues to cause the closure of many companies often without warning. Once again please be careful with your hard earned money and make certain that you follow the code printed in most magazines before you make that special purchase.

See you next month.

Jakki Brambles

INDI MULTI MEDIA CLUB

A true 'One Stop Shop' for all members. On offer each month with an ever increasing product range , members can obtain software to cover every application including **Morphing, Rendering, Raytracing, Video** and a PD Library second to none. The Club also offers a very comprehensive range of videos including the **Cult Manga Titles, Music, Features and Special Interest**. There really is something to suit every ones taste. Membership costs only £10 and each member receives a quality gift on joining, even though there is absolutely no commitment to buy at any time. If you would like to be a part of this exciting club then call **Indi on 0543 419 999**

INDI IS A MEMBER OF THE DMA

As with most industries, the UK's personal computer industry has its shar of cowboys operating in the mail order sector and at the receiving end a line up of despairing consumers who have suffered at their hands.

A personal computer is a sophisticated and expensive item and provided the purchaser is dealing with a reputable and accredited supplier, buying a computer by mail order can be a perfectly safe and cost effective exercise. The Direct Marketing Association (DMA) was set up in April 92 to set and maintain high standards for the sake of the industry and society at large, and to ensure that we can continue to regulate our own activities on the basis of proper professional responsibility.

Membership of the DMA is not conferred lightly - it is a privilege which entails responsibilities, to the consumer as well as to the industry. The foundation for this must be good practice. DMA members are required to abide by the highest standards as laid down in the DMA's code, enforced on members by The Authority of the DMA a separate body with an independent Chairman, and which is an assurance of vigorous self regulation and professional responsibility. DMA members also agree, as a condition of membership, to abide by The British Code of Advertising Practice and The British Code of Sales Promotion Practice: to apply the Mailing Preference Service file when appropriate: and to subscribe to the Advertising Standards Board of Finance (ASBOF) and to the Mailing Standards Levy as applicable.

The DMA symbol can only be used by members. Printed on stationary, advertising and other promotional material it demonstrates that these companies conform to the Association's high standards and are subject to the DMA's Code of Practice thus enhancing the companies credibility with customers, suppliers and of greatest importance, the consumer.

Since the symbol was introduced last June, it has become synonymous with quality , professionalism and and responsibility. While it cannot be shown in any way which will become a sign of best industry practice and of strict adherence to DMA codes of conduct. The symbol represents authority for members and reassurance for consumers. It has been a high valued mark of confidence signifying to the consumer the truly professional edge of the industry.

Alison Slan
(Director of Public Relations,DMA)

CREDIT AVAILABLE ON 6,12, 18, 24, 36 MONTHS.

WHY NOT RING NOW FOR A QUOTE. SAME DAY RESPONSE.

AMIGA PERIPHERALS & ACCESSORIES

NEW FROM MICROBOTICS!!!. M1230XA ACCELERATOR LAUNCH!!

Microbotics beats the competition in price/ performance/ features and configurations. INDI is very pleased to announce the availability of the new 68030 accelerator product for the A1200: the microbotics M1230 XA (call it the "XA" for short). 50 Mhz as standard! Huge 128 MB memory design is standard (the biggest memory space in any A1200 peripheral) just look at these specifications and prices!

M1230 XA W/40 MHZ EC 030 OMB	**INDI PRICE £239.99**
M1230 XA W/40 MHZ EC 030 4MB	**INDI PRICE £369.99**
M1230 XA W/40 MHZ EC 030 8MB	**INDI PRICE £599.99**
M1230 XA W/50 MHZ MMU 030 0MB	**INDI PRICE £349.99**
M1230 XA W/50 MHZ MMU 030 4MB	**INDI PRICE £479.99**
M1230 XA W/50 MHZ MMU 030 8MB	**INDI PRICE 6711.99**

AUDIO VISUAL

MEGAMIX. Low cost, hi spec digital effects cartridge plugs into the printer port of the Amiga. Allows stereo sampling from almost any musical source.

INDI PRICE £29.99

TAKE 2. Animation package is a must foe computer artists and enthusiasts of all ages. As used in Rolf Harris Cartoon Club.

INDI PRICE £37.99

VIDI AMIGA 12. The ultimate low cost colour digitiser for the Amiga. "The best value full colour digitiser on the market" AMIGA FORMAT.

INDI PRICE £75.99

ROMBO VIDI AMIGA 24(RT). For the more serious user, this 24 - bit version will again capture from from any video source with true photo realistic images! A staggering 16.7 million colours can be utilised with incredible results. Full AGA chipset support.

INDI PRICE £239.99

AMIGA PERIPHERALS

2MB SMARTCARD. The original and still the only fully PCMCIA compatible memory card for A600/ A1200.Comes with lifetime guarantee. Beware of cheap imitations.

INDI PRICE £129.99

4MB SMARTCARD. Same as above but maximum 4MB.

INDI PRICE £199.99

ZAPPO 601

Trapdoor upgrade for the A600, 1Mb with RTC **INDI PRICE £49.99**

ZAPPO 601 INC As above only 512K, no clock **INDI PRICE £29.99**

601 RAM EXPANSION
601 RAM EXPANSION

OPAL VISION

OpalVision

NEW FOR OCTOBER RELEASE!

The already acclaimed Opalvision Board takes three further leaps into the future with the official launch of the Opalvision modules. With truly awesome capabilities the Amiga can now become the most professional 24 - bit video graphics power station ever!

MBX1200.

The original and best floating point unit and memory upgrade for the Amiga A1200. Available with 0,4 or 8 MB of 32 bit Fast RAM and a choice of floating point units.Now complete with real time clock (RTC)

MBX1200Z 68881 14 MHZ 0MB	**INDI PRICE £109.99**
MBX1200Z 68881 14 MHZ 4MB	**INDI PRICE £249.99**
MBX1200Z 68881 14 MHZ 8MB	**INDI PRICE £449.99**
MBX1200Z 68882 25 MHZ 0MB	**INDI PRICE £169.99**
MBX1200Z 68882 25 MHZ 4MB	**INDI PRICE £309.99**
MBX1200Z 68882 25 MHZ 8MB	**INDI PRICE £519.99**
MBX1200Z 68882 50 MHZ 0 MB	**INDI PRICE £249.14**
MBX1200Z 68882 50 MHZ 4MB	**INDI PRICE £379.14**
MBX1200Z 68882 50 MHZ 8MB	**INDI PRICE £579.99**
68882 FPU UPGRADE 50 MHZ	**INDI PRICE £169.99**

ROCTEC ROCGEN PLUS. As above but with extra features such as tinting and signal inversion. Allows for real time editing of graphics. Compatible with all Amigas.

INDI PRICE £129.99

ROCTEC ROCKEY. The ultimate accessory for Amiga / Video fans. Separate RGB controls to chroma key on any colour.

INDI PRICE£249.99

ROMBO VIDI AMIGA 12 (RT). Based on the best selling Vidi Amiga 12. This all new version offers real time colour capture from any video source. Full AGA chipset support as standard for all A1200 / 4000 users.

INDI PRICE £139.99

DISK DRIVES

EXTERNAL 3.5" DRIVE

ZAPPO EXTERNAL FLOPPY

You've seen all the reviews on this popular and affordable second Amiga drive. Compatible with all Amigas.

INDI PRICE £59.99

Quality: 9 out of10. Exceptional value for money. AMIGA COMPUTING JAN 93

1084ST MONITOR.

Commodores original and best selling colour stereo monitor.

Now includes swivel and tilt stand for total ease of use.

INDI PRICE

£189.99

(£179.99 if purchased with A600 / A1200 / A1500)

The NEW OPAL VISION system(Rev.2)

The amazing Opalvision 24 - bit graphics board and software suite has been updated and is now even better value for money.

The software suite now includes:

Opal Paint V2.0 - Now includes full magic wand implementation and Alpha Channel that allows photo compositing with selectable levels on a pixel by pixel basis.The new Chrominance effect allows absolute, real time control of image contrast, brilliance and re - mapping of colours.

Opal AnimMATE V2.0 - ofering real time play back of animations created by ray tracers, landscape generators, morphers and all other 24 - Bit software.

Opal Hotkey V2.0 - Display OpalVision graphics anytime with key combinations.

Opal Presents - Comprehensive, icon - driven presentation package

Imagine V2.0 Imagine 3D is the most popular 3D rendering software, that now supports OpalVision.This is a full version that would cost £300 if purchaed separately.

"Quite simply, it's a spectacular product - Amiga Computing

"Undoubtedly the finest, most professional paint program to arrive on the Amiga" - Amiga Format

"Professonal quality at this Price can't be turned away" - Amiga User International

"The verdict was unanimous - brilliant" - Amiga Shopper

INDI PRICE £599.99

PACK INCLUDES IMAGINE V2.0

MORPH PLUS

You've seen Micheal Jackson's video, you've seen the television adv using the latest techniques in morphing, now now you can create th same results but at a fraction of the cost. Morph Plus is the latest a the ultimate in this technology. Whether you are a professional art or just want to experiment at home Morph Plus is a must.

INDI PRICE £129.99

DELUXE PAINT IV AGA

Combines powerful tools with an intuitive interface so both professionals and beginners alike can get superb results quickly. New enhancements to the software include the ability to paint and anim in 4696 colours in the Amiga's HAM (Hold and Modify)mode. New animation features also include metamorphosis allowing you to cha one image into another. You determine the number of frames and DPaint IV does the rest.

INDI PRICE £63.99

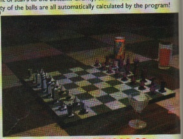
ART DEPARTMENT PROFESSIONAL

The ultimate in image processing providing many key benefits to A users working with pictures.With ADPro you can read, write and c vert between most common image file formats with unmatched fle bility. Full support for JPEG image makes it possible to maintain an image library in full 24 - bit colour without needing massive hard dr storage. Typically a 600 Kb image can be compressed down to 40 K

INDI PRICE £139.99

REAL 3D V2

Is a full featured 3D animation, modelling amd rendering program. With Real 3D V2 you can produce high quality images and animatio of three dimensional models with an astonding level of realism. Ima creating an animation that shows a handfull of balls bounce down a flight of stairs to the bottom. Gravity, colliision, deflection and the e ticity of the balls are all automatically calculated by the program!



INDI PRICE£299.99

SCALA Multimedia 200 (MM200)

Is the ultimate on professional video titling. The eminent design of typefaces, the unlimited choice of typographical details, the high res tion and the more than 80 exciting wipes result in video captioning exquisite quality. No wonder that Scala is used by leading television stations around the world.

INDI PRICE £399.99 also available

SCALA Pro V1.3

INDI PRICE £169.99

VIDEO DIRECTOR

With Video Director, anyone with an Amiga, a camcorder and a VC can quickly and easily catalogue and edit the best moments from th video tapes. Video Director is extremely easy to use, you can actua control your camcorder and VCR from your Amiga screen . Video Director comes with everything you need to get started. The hardware to control your camcorder* and VCR is included

INDI PRICE £119.99

*Camcorder must have a LANC or Control L compatible port

Professional software is imported and sometimes subject t delay. Confirm delivery at time of order.

TEL: 0543 419 999 FAX: 0543 418 079

TERMS AVAILABLE OVER 6, 12, 24, & 36 MONTHS SUBJECT TO STATUS.

WHY NOT RING FOR A QUOTE. SAMEDAY RESPONSE. (SEE EXAMPLE)

DIRECT MARKETING ASSOCIATION

Panasonic *Quiet* Colour Printing

We researched the colour printer market at great depth to find a colour printer good enough to cope with Amiga's powerful output, yet at an affordable price.
We found the perfect printer in the KX - P2180 and KX - P2123 quiet printers.
We then considered that if you were going to buy a Panasonic printer you would probably need a quality word processing package to use with it. We found that too, with 'Wordworth' yet at a retail price of £129.99 we thought that might be a little too expensive on top of your printer purchase! So together with Panasonic we decided to give a copy of 'Wordworth' free with every Panasonic printer. How's that for added value?

Panasonic KX - P2180

***WORDWORTH AGA COMPLETELY FREE!**

WITH PANASONIC QUIET PRINTERS. The writers choice. The ultimate word processor for AMIGA computers. Wordworth is undoubtedly the ultimate word / document processor for the full range of AMIGA computers. The graphical nature of WORDWORTH makes producing documents faster and easier, with the enhanced printing fonts (including full Panasonic KX - P2180 and KX - P2123 colour printing support), Collins spell checker and thesaurus, no other word processor comes close. "Without doubt this is one of the best document processors for the AMIGA, Today" (Amiga Format)

NORMAL RRP £129.99 inc. VAT

The new Panasonic KX - P2180 9 -pin quiet printer. Produces crisp clear text in mono or in 7 glorious colours with new quiet technology. THe new KX - P2180 is typically 15dBa quieter in operation, than the competition.

- **Fast Printing** Speeds 192 CPS NLQ
- **Colour Printing** 7 colour palette (blue, red, green, yellow, violet, magenta,black)
- **Quiet printing** Super quiet 45 - 48 dBa sound level (most matrix printers are typically in excess of 60 dBa)
- **6 Resident Fonts** Over 6,100 type styles using Courier Prestige, Bold PS, Roman, Script and Sans Serif Fonts.
- **3 Paper Paths** Paper handling from bottom, top and rear for total flexibility
- **1 Year Warranty** for total peace of mind

INDI PRICE

£169.99

Panasonic KX - P2123

THE UK'S BEST SELLING COLOUR MATRIX PRINTER

The new high performance Panasonic KX - P2123 24 pin. Quiet colour printer offers leading edge quiet printing technology at an affordable price

INDI PRICE

£219.99

- **Fast Printing Speeds** 192 CPS draft, 64 CPS LQ and 32 SLQ.
- **Colour Printing** 7 colour palette (blue, red, green, yellow, violet, magenta, black)
- **Quiet Printing** Super quiet 43.5 - 46 dBa sound level (most matrix printers are typically in excess of 60 dBa)
- **7 Resident Fonts** Over152,000 type styles using Super LQ, Courier Prestige, Bold PS, Roman, Script, and Sans Serif Fonts.
- **24PIN Diamond** Printhead High performance and high quality output
- **1 Year Warranty** for total peace of mind.

Panasonic LASER PRINTER

KX - P4410 LASER PRINTER

WORDWORTH AGA COMPLETELY FREE WITH PANASONIC LASER PRINTERS.
The writers choice. The ultimate word processor for AMIGA computers
NORMAL RRP £129.99 inc VAT

KX - P4430 LASER PRINTER

Once again INDI have joined together with Panasonic to offer all Amiga owners the most outstanding Laser Printer offer ever. We are now able to offer high quality, professional laser printing at affordable prices. We are also giving away a copy of Wordworth with every Panasonic Laser Printer purchased (RRP £129.99). Whether you are looking for a laser printer to handle word processing, DTP, presentation or complex graphic applications - the Panasonic range offers you the power to meet your requirements.

KXP - 4410

- 5 pages per minute
- 28 resident fonts
- Optional 2nd input bin(total printer capacity 2 x 200 sheets)
- Low running costs
- Parallel interface
- Optional memory expansion to 4.5 Mb (0.5 as standard)
- HP laserjet II Emulation

INDI PRICE

£549.99
inc. VAT

Imminent price increase.
This price while stocks last.

WORDWORTH AGA COMPLETELY FREE WITH LASER PRINTERS

Panasonic
2
YEAR
ON-SITE WARRANTY

KXP - 4430

- Satinprint (optimum resolution technology)*
- 5 Pages per minute
- HP Laserjet III Emulation, PCL 5
- 8 Scalable fonts & 28 bitmap functions
- Optional 2nd input bin (total printer capacity 2 x 200 sheets
- Optional memory expansion to 5.0 Mb (1 Mb as standard)

INDI PRICE

£699.99
inc. VAT

Imminent price increase.
This price while stocks last.

*(Satinprinters use optimum resolution technology to produce truly outstanding print quality. This software technique smooths away traditional jagged edges on curved characters and lines by varying the printed dot size

WORDWORTH AGA COMPLETELY FREE WITH LASER PRINTERS

Panasonic PRINTER ACCESSORIES

1) PANASONIC AUTOMATIC SHEET FEEDER
Automatic sheet feeder for KXP 2180/ KXP 2123 holds 80 A4 sheets. **INDI PRICE £89.99**

2) PRINT DUST COVER
Specially tailored quality dust cover for Panasonic KXP 2180/ KXP 2123 printer. **INDI PRICE £8.99**

3) PRINTER STAND
2 piece printer stand. **INDI PRICE £9.99**

4) PAPER PACK
500 sheets quality A4 paper. **INDI PRICE £9.99**

5) CONTINUOUS PAPER
2000 sheets 1 part listing paper. **INDI PRICE £19.99**

6) PARALLEL PRINTER CABLE
To be used when connecting Amiga to Panasonic printers.
INDI PRICE £8.99 (£5.99 if purchased with a printer)

7) PANASONIC COLOUR RIBBON
Colour ribbon for KXP 2180/ KXP 2123.
INDI PRICE£18.99

8) PANASONIC BLACK RIBBON
Black ribbon for KXP 2180/ KXP 2123. **INDI PRICE £9.99**

SAVE ££££'S ON THE FOLLOWING ACCESSORY PACKS

PACK 1
PANASONIC COLOUR RIBBON PACK
Contains 6 colour ribbons for the KXP 2123 RRP £119.99.
INDI PRICE £89.99 SAVE £30!!!

PACK 2
PANASONIC RIBBON PACK
Contains 2 black and 4 colour ribbons for KXP 2180/ KXP 2123.RRP £99.99.
INDI PRICE£69.99 SAVE £30!!!

PACK 3
PANASONIC DELUXE ACCESSORY PACK
Contains automatic sheet feeder, 2 black ribbons, 2 colour ribbons, 1 dust cover, 2 piece printer stand. RRP £169.99 **INDI PRICE £139.99** SAVE £30

Add £2.50 carriage to all printer accessories or combinations thereof

TEL: 0543 419 999 FAX: 0543 418 079

*PAY 10% NOW AND NOTHING MORE FOR 3 MONTHS

***ORDERS OVER £200 SUBJECT TO STATUS**

CUSTOMER CHARTER

INDI Direct Mail is original and very exciting. Before you buy mail order you must first be confident that you will receive the product you've ordered and that the supplier still be there in the future, should you need them.

A mail order purchase from INDI is a safe and secure decision, and here's why.
INDI is a wholly owned subsidiary of a public company now in it's tenth year of trading and specialising in the supply of computer products.

With a turnover approaching £30 million per annum, we have the resources and the purchasing power to offer you the best deals, deliver them next day nationwide and always be around when you need us.
The INDI sales team have been trained to

SALES AND SUPPORT

take your order with the utmost care and efficiency. All stock offered for sale is held in stock, centrally at our group ware house complex and is available for next day delivery, direct to your home or business. If at any time we are out of stock your money will not be banked until the product is available (a point worth checking should you be tempted to purchase elsewhere)

General information regarding product is available from our sales team, however technical support is always on hand should you need assistance.

All prices quoted are inclusive of VAT.

INDI TELESALES
TEL 0543 419999 FAX 0543 418079
9am - 7pm Monday to Friday
9.30am - 4.30pm Saturday.

CREDIT FACILITIES

INDI are now able to offer competitive credit facilities on all orders over £200. All credit facilities are subject to status and applicants must be over the age of 18.
If you would like a quote simply call our our sales line where acceptance can normally be notified within the hour. We are also able to offer Credit Insurance to cover repayments in the event of sickness or unemployment.

AMOUNT* OF CREDIT	12 MONTHS		24 MONTHS		36 MONTHS	
	MONTHLY PYMNTS	TOTAL PAYABLE	MONTHLY PYMNTS	TOTAL PAYABLE	MONTHLY PAYABLE	TOTAL PYMNTS
200	£22.00	£264.00	£12.00	£298.32	£9.31	£335.63
500	£54.99	£659.88	£31.06	£745.44	£23.27	£837.72
1000	£109.98	£1319.76	£62.13	£1491.12	£46.54	£1675.44

APR 29.9% WRITTEN QUOTATIONS AVAILABLE ON REQUEST
***After deposit paid**

AFTER SALES AND SPECIALIST SERVICE

All products are guaranteed for 12 months. Some products carry a 12 months at home service and repair guarantee (where indicated). In the unlikely event that any product purchased from INDI arrives at your home faulty, we will collect from your home and replace the product completely free of charge.

As part of our policy of continual product development and refinement, we reserve the right to change specifications of products advertised. Please confirm current specifications at the time of ordering.

Prices are valid for month of publication only.

AMIGA A1200

AMIGA 1200
DESKTOP DYNAMITE

NEW AMIGA PACK

AMIGA 1200 CHARTBUSTER PACK

AMIGA 1200 SD
- Nigel Mansells World Championship Racing
- Trolls
- Amiga Challenge Pack

NEW AMIGA PACK

PACK INCLUDES: * International Sports Challenge * Paradroid 90 * Cool Croc Twins * Indianapolis 500

£289.99 or from **£11.04*** per month

*(Credit price based on 36 monthly payments APR 29.8%.
Total repayment £397.92 and 90 day deferred payments.

NEW DESKTOP DYNAMITE PACK

This great new pack from Commodore must have at least £300 wor

software bundled with it.

A1200 STANDARD FEATURES.
* 68020 Processor * PCMCIA Slot. * 2MB Chip RAM. * 3.5" Internal D
* AA Chipset. * Built in TV modulator. * Alpha numeric keypad.
* 12 Months at home maintenance.

FREE
* Wordworth AGA * Print Manager * Deluxe Paint IV AGA * Oscar AG
* Dennis The Menace AGA

INDI PRICE

£339.99 or from **£12.95*** per month

*(Credit price based on 36 monthly payments APR 29.8%.
Total repayment £466.20 and 90 day deferred payments.

NEW LOW PRICE HARD DRIVE OPTIONS

A1200 80 MEG HD	INDI PRICE ADD £200.
A1200 120 MEG HD	INDI PRICE ADD £230.

OFFICIAL A1200 HD SYSTEMS
The Amiga 1200 supplied by Indi Direct Mail now includes the official (leg
Commodore installation disk and hard drive utility manual. Indi are prou
to be an official supplier of Amiga 1200 Hard Drive systems, that inclu
the official software, documentation and on - site warranty.

80 Mb and 120 Mb Hard Disk upgrades available on any A1200. Upgrade does not invalidate your Wang or ICL warranty on A1200 and Hard Disks. Phone for a

AMIGA A4000

FREE INDI GRAPHICS PACK

It's here - The new Amiga 4000/030

The NEW Amiga 4000/030 features a EC68030 processor running at an incredible 25Mhz, and upgradable at a later date to a faster processor. The 4000/030 has a powerful 2 Mb of 32 - bit RAM expandable to 18 Mb using industry standard 32 - bit Simms module. In line with the Amiga "agship 4000/040 the 4000/030 features the new AGA graphics chipset, giving you a massive pallet of 16.8 million colours. A range of hard drive options are available from 80 - 240 Mb and includes a SCSI option.

4000/030 80 Mb HD **INDI PRICE £899.99**
Other Drive Options
4000/030 120 Mb HD **INDI PRICE £959.99**
4000/030 240 Mb HD (exclusive to INDI)
Phone for price.
4000/030 120 Mb SCSI HD (exclusive to INDI)
Phone for price

A full range of approved upgrades are available for the 4000/030, including additional memory modules, hard drives, PC bridge boards, FPU's (68881 &68882)and the 24 - bit Opal Vision graphics and video system

INDI GRAPHICS PACK (FREE WITH ALL A4000'S)
PD C - light, Graphic Utilities, Ray Tracing and Rendering package pre loaded on to your Hard Drive.

NEW MONITOR RANGE
THE NEW DUAL SYNC1942 Monitors have been specially designed for the New Amiga 1200 and 4000 computers. Both monitors feature built - in stereo speakers.

INDI PRICE

1940 Monitor £269.99

14 inch screen size - 0.39 mm dot matrix

INDI PRICE

1942 Monitor £369.99

14 inch screen size - 0.28 mm dot matrix

ZAPSAC AND T - SHIRT
INDI PRICE £17.99

Parnet Adaptor for CDTV

Connect a CDTV player to any Amiga, and access the
of CD - ROM software.The Parnet interface and so
will allow the Amiga CDTV to be used as a CD -
drive withe any Amiga and will give any Amiga owner
to the vast range of CDTV software currently availabl
The CDTV player offers excellent value for money
compared with a standard CD - ROM drive and in
Most CD - ROM drives will set you back over £400
CDTV will cost you less than £300 and will play audi
in addition to CD - ROM / CDTV disks your Amiga.
face cable and PD disk with driver software for your
player. **(The Parnet adapter can be use**
link any Amigas together)

INDI PRICE **£39.9**

CDTV MULTI MEDIA + PARNET.
INDI PRICE £289.99

AMIGA A600 PRICE CRASH

THE WILD THE WEIRD THE WICKED
AMIGA 600

THE WILD THE WEIRD AND THE WICKED A600 is an ideal starter pack containing a considered mix of software, making the most of the Amigas capabilities.

PACK CONTAINS:
- **A600 Single Drive**
- **Built in TV Modulator**
- **1 Mb Memory**
- **Pushover: Grandprix**
- **Silly Putty: Deluxe Paint III**
- **Mouse and Manuals**

NEW LOW LOW PRICES
~~£215.99~~
£199.99

A600 - SD A single drive Amiga for those of you requiring a basic A600 at a very com petitive price.
PACK INCLUDES: A600 single drive, built in TV modulator, 1 Mb memory. 12 Months at home service

INDI PRICE ~~£189.99~~ **£169.99**

A600 EPIC PACK (40 Mb HD) PACK INCLUDES:
A600 Hard Disks (40Mb) * **1 Mb Memory** * **Epic** * **Rome** * Myth * Trivial Pursuit * Amiga Text * Deluxe Paint III * 12 Months at home service.

INDI PRICE ~~£379.99~~ **£279.99**

INDI A600 ACCESSORY PACK
* Microswitched Joystick * Lockable Disk Box * Disk Wallet * 10 Blank Disks
Kick Off 2 * Pipemania * Space Ace * Populous * Zapsac A600 Carry Case
* Zappo T - Shirt.

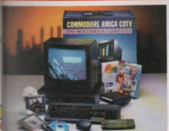
INDI PRICE ~~WORTH £79.99~~ **£26.99**

TEL: 0543 419 999 FAX: 0543 418 079

LOW INTEREST CREDIT ON ALL ORDERS OVER £200
(PLEASE CALL FOR A QUOTATION, SUBJECT TO STATUS)

AMIGA CDTV THE MULTIMEDIA COMPUTER TOTAL HOME ENTERTAINMENT SYSTEM

PRICE CRASH!!!



BLACK 1048S MONITOR

At last the CDTV Monitor you have been waiting for. The original and best selling colour/ stereo monitor from Commodore is now available in black to complement your CDTV.

INDI PRICE £189.99
(£179.99 when purchased with CDTV Multi Media pack)

PACK CONTENTS AS STANDARD

- Amiga CDTV Player
- CDTV Keyboard
- CDTV 1411 3.5" Disk Drive
- CDTV Infra Red Remote Controller
- CDTV Wired mouse
- CDTV Welcome Disk
- Manuals
- Fred Fish CDTV Disk

INDI PRICE

PACK AS SHOWN £229.99

AMIGA CDTV EXTERNAL HARD DISK DRIVE

You've got the CDTV, you've got the keyboard and the floppy disk drive - for a total computer solution all that's needed is an ultra fast hard disk drive.
The CDTV - HD unit boasts a massive **60 Mb of hard disk** storage with lightning fast access times through its SCSI interface. The unit comes complete with Workbench 1.3 and all necessary cables.

INDI PRICE

£219.99

If you are thinking of buying CDTV or already own one you'll be pleased to know that INDI stock all CDTV accessories and software that are available from manufactures. We believe in CDTV and we therefore continue to support this exciting product. You will always have a source of product for your CDTV from INDI.

L to R

CDTV Encore SCSI Controller + Internal Mount	£59.99
CDTV Internal Genlock	£ 99.99
Black 1084S Colour Stereo Monitor	£189.99
(When purchased with CDTV Multi - Media Pack)	£179.99
CDTV Remote Mouse	£39.99
Scart TV / Monitor Lead (inc Stereo Phono Lead)	£14.99
Megachip - 1Mb Upgrade Chip RAM Upgrade for CDTV	£152.99
CDTV Trackball	£69.99

AMIGA CDTV SOFTWARE

ARTS AND LEISURE

Advanced Military Systems	£29.99
Women in Motion	£29.99
Guinness Disc of Records	£34.99
Animals in Motion	£29.99
Connoisseur Fine Arts	£34.99
Fruits & Vegetables	£34.99
Trees & Shrubs	£34.99
Indoor Plants	£34.99

EDUCATION

Fun School - Under 5's	£24.99
A Long Hard Day at the Ranch	£34.99
A Bun for Barney	£29.99
Cinderella	£39.99
Fun School for 5 to 7	£24.99
Fun School for Over 7's	£24.99
Heather Hits her First Home Run	£34.99
LTV - English as a 2nd Language	£34.99
Mind Run	£29.99
Mud Puddle	£34.99
My Paint	£29.99
Paper Bag Princess	£34.99
Scary Poems for Rotten Kids	£39.99
Tale of Benjamin Bunny	£39.99
Tale of Peter Rabbit	£39.99
Thomas 's Snowsuit	£34.99
Moving Gives me Stomach Ache	£34.99
Barney Bear Goes Camping	£29.99
Asterix French for English 1	£34.99
Japan World (PAL)	£49.99
Fractal Universe	£34.99
Read with Asterix	£19.99

ENTERTAINMENT

Battlechess	£39.99
All Dogs Go To Heaven:Electric Crayon	£34.99
Classic Board Games	£34.99
Dinosaurs for Hire	£14.99
Hounds of the Baskevilles	£29.99
Psycho Killer	£29.99
Sim City	£29.99
Trivial Pursuit (PAL)	£49.99
Wrath of the Demon	£29.99
Raffles	£34.99
Prehistorik	£34.99
Snoopy	£34.99
Town with No Name	£29.99
European Space Simulator	£34.99
Global Chaos	£29.99
Turrican II	£29.99
Guy Spy	£29.99
Curse of Ra	£24.99
Space Wars	£29.99
Defender of the Crown	£29.99
Case of the Cautious Condor	£34.99
Tiebrake Tennis	£19.99

MUSIC

Karaoke Hits 1	£14.99
Music Maker	£34.99
Remix	£29.99
Voicemaster + Microphone	£39.99
Blues Brothers (Audio CD only)	£10.99
Music Colour	£39.99

REFERENCE

American Heritage Dictionary	£49.99
Complete Works of Shakespeare	£29.99
Illustrated Holy Bible	£29.99
New Basic Electronic Cookbook	£39.99
Timetable of Business	£39.99
Dr Wellman	£54.99

AMIGA ACCESSORIES PRICE CRASH!!!

AMIGA 1500

~~RRP £599.99~~

FEATURES INCLUDE:
- *1Mb expanbable using A2058 RAM board.
- *Includes 2 X 3.5" disk as standard with 5.25 " Disk Bay.
- *Integral memory card and card expansion capabilities (most cost effective expansion route)
- *Workbench 2.00 and kickstart 2.04

CONTENTS:
*Keyboard, mouse, reference manual, Puzznic, Toki, Elf (Games), D Paint III, Home Accounts, The Works(Platinum edition: Wordpro, . Spreadsheet, Database) Joystick.

MONITOR AND PRINTER NOT INCLUDED

NOW £249.99

OpalVision

A2091 CONTROLLER CARD

The 2091A is an autobooting SCSI controller card with the facility to mount the SCSI Hard Drive directly onto the controller card. The 2091A also has the facility to take upto 2Mb RAM (1/2 Mb steps). The A2091A controller is zorro II compatible and is therefore suitable for the Amiga 2000 although it does offer an ideal solution for the Amiga 4000/030, where leading edge performance is not require. The A2091A is still the most reliable Amiga SCSI card available and with the supplied software is the easiest way to install.

INDI PRICE £79.99

The AMIGA 3000 Workstation

The Amiga 3000 features the powerful Motorola 68030 processor running at 25Mhz (more powerful than the Amiga 4000/030) with the performance enhancing 68882 co - processor. An idealvideo workstation for the OpalVision system.

FEATURES INCLUDE:
- *68030 processor running at 25Mhz (featuring MMU)
- *2Mb RAM (expandable to 18Mb on - board)
- *52 Mb high speed SCSI hard Drive
- *3.5" floppy drive
- *On - board flicker fixer
- *AT style keyboard
- *Mouse
- *Workbench 2.0 & Amiga Vision Multimedia software

DOES NOT INCLUDE THE MONITOR AND OPALVISION

~~RRP £1199.99~~

NOW £699.99

A2630 -2Mb ACCELERATOR BOARD

The 1630 is a 68030 accelerator board running at 25Mhz complete with a 68882 FPU and 2Mb of 32 - Bit fast RAM suitable for the A2000. THe 2630 board brings the performance of the Amiga 2000 upto nearly that of the A3000, ideal when running professional applications. An additional 2Mb of 32 - Bit fast RAM can be added to the 2630 board, giving a total of 4 Mb of fast RAM.

INDI PRICE £369.99

A2286 AT EMULATOR

The A2286 AT emulator kit offers IBM AT compatibility on the Amiga 2000 and 3000 systems, running at 10Mhz with 1Mb RAM and CGA graphics. The A2286 emulator also includes a 5.25"1.2Mb floppy drive and MS DOS operating software.

INDI PRICE £159.99

A2088 XT EMULATOR KIT

The A2088 XT emulator kit offers IBM compatibilityon the Amiga 2000 and 3000 systems, running at 4. 77Mhz with 512Kb RAM and CGA graphics. The A2088 emulator also includes a 5.25" 360K floppy drive and MS DOS operating software.

INDI PRICE £79.99

A2058 RAM BOARD

An 8 Mb 16 - Bit RAM board, supplied with 2Mb RAM and upgradable in two steps. The 2058 is a zorro II compatible and they are compatible with the A2000.

INDI PRICE £99.99

A2300 GENLOCK

A cost effective home quality entry level internal genlock, suitable for the Amiga 2000/3000. The 2300 genlock is an ideal solution for anyone wishing to put titles or graphics onto home video.

INDI PRICE £39.99

DESPATCH

All orders received by 6pm Monday to Friday are despatched sameday for delivery using our national courier - Securicor. (UK Mainland only). Saturday deliveries are available at a small surcharge. If you are out when we deliver, a card will be left at your home giving you a contact telephone number to arrange a convenient re - delivery.
Delivery queries can be resolved immediately using our on - line computer.
Cheque orders are despatched immediately on cheque clearance, usually 10 working days from receipt. A delivery charge of £5.00 is made per item unless otherwise stated.

WE ALSO ACCEPT B.F.P.O. ORDERS (DUTY FREE) CARRIAGE CHARGE AT UK POSTAL RATES.

HOW TO ORDER

BY POST - Simply fill in the coupon below.
BY PHONE - phone lines open9.00am - 7.00pm Mon - Fri. 9.00am - 4.30pm Sat. - where your call will be answered by one of our INDI sales team. After 7.00pm each day your call will be answered by answerphone. If you would like to place an order have all the details at hand including credit card. All offers subject to availability. Prices correct at time of going to press. May we suggest you call before ordering.

SEND YOUR ORDER TO:

INDI DIRECT MAIL
1 RINGWAY INDUSTRIAL ESTATE,
EASTERN AVENUE,
LICHFIELD
STAFFS. WS13 7SF

CU1093

Please send..
1)..
2)..
3)..
4)..

Price.............................. + Delivery.

I enclose cheque/ PO for £..............
or charge my Access/ Visa No..............
....

Expiry...../...../.....

Signature..

Name..

Address..
....
....
....

Deliver to if different..............................
....
....
....

Daytime Tel..............................

Postcode..............................

TEL: 0543 419 999 FAX: 0543 418 079

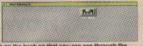
COVERDISK 66

66
AMIGA
FLEXIDUMP 2.5
COMPLETE PROGRAM
WORTH £50
PLUS!

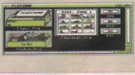
Colour pictures from a black and white printer – impossible! Not if you've got this month's Coverdisk. And if you haven't got a printer then enjoy yourself with the image processing routines.

FLEXIDUMP

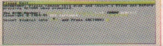
QUICKSTART GUIDE TO LOADING DISK 66



1. Before you start, find a disk suitable for copying *Flexidump* onto. Now write protect your Coverdisk by moving the plastic tab on the back so that you can see through the hole.



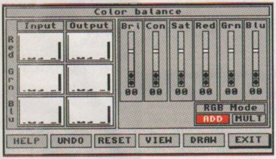
2. Boot up your Amiga with the Coverdisk and double-click the disk icon to open its window.
3. You will see a large disk-like icon for *Flexidump*. Double-click on this and the process of restoring the *Flexidump* disk to full size will begin.



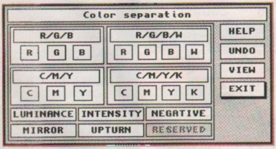
4. A Shell will open and the compressed file holding the program is copied from df0: to ram:. When this has been done you will be asked to insert the blank disk.

ZITASOFT
Flexidump
CU Amiga

5. Remove the Coverdisk from df0: and put in the blank disk. Follow the on-screen instructions.
6. When the operation is complete you can reset your computer to boot from the *Flexidump* disk.



You can use *Flexidump* to perform image processing on your iff screens.



Colour separations are the basis for professional printing and Flexidump provides a wide variety of separation options.

THREE IN ONE

The *Flexidump* disk contains three different programs, Flexi(.Prg), Flexicat(.Prg), and Custom(.Prg). The first is the main printer control and graphics program.

Flexicat is a program based around Flexi. It allows you to automatically print out all the picture files within a particular directory, in a similar manner to a photographer's contact sheet, as little pictures on one page.

The Custom program enables the user to adapt one of the Flexi printer drivers for their own particular model of printer. This is only used if the printer is not one directly supported by *Flexidump*.

Double-click the Flexi icon and after a few seconds of loading you will see the main control screen. This is divided into eight sections.

If we are to use the program properly then we must first load in a suitable printer driver. Flexi ignores the settings in Amiga Preferences and uses its own to achieve superior output.

With the right mouse button held down we can access the pull-down menus at the top of the screen. By selecting the file/load driver we call up a file requestor that is already set for the Flexicus driver. This is designed to work with most Epson-compatible 9-pin colour printers. By clicking on '>> Cus' in the requestor we can find the drawers that contain the Color, Mono, and Bubblejet drivers.

Clicking on '>> Mono', for example, will cause a list of drivers for single colour printers to appear. These can be scrolled through by using the up/down arrows or the slider gadget. If you see a driver that matches your printer then click on it and then on 'OK'. If you want to get out of that drawer click on '<<' to go up a level in the directory.

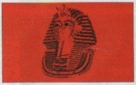
With the correct driver loaded the program is prepared for use with basic settings. These should not need to be altered during normal use. I'll explain what all the gadgets and buttons do later.

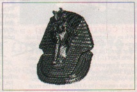
GOOD KING TUT

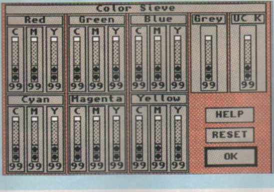
An IFF is loaded using the requestor called up by the pull-down menu 'File/Load Pic'.

On the disk there is a PIC drawer with some sample IFF pictures in it. There is another drawer in that called '4AM'. This contains the King Tut drawing I used as the example.

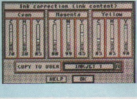
Okay, so we've got a picture loaded. Let's print it. Select 'Page Dump' from the pull-down menu labelled 'Print'. A new screen appears, titled 'Select screen area', with a small representation of our IFF in the middle of it. Surrounding the picture is a frame and a host of boxes with arrows in them. By click-







The colour sieve screen allows you to adjust the colour printing to suit your printer.

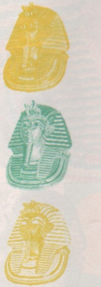


DISK VIRUSES

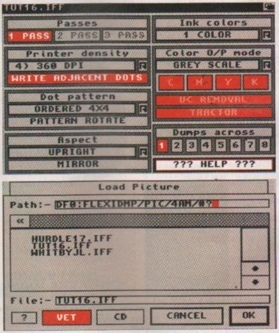
CU AMIGA makes every effort to ensure that viruses do not get on to our disks, and we aim to include a virus checker on the disk whenever possible. Unfortunately, because of the nature of viruses, the virus killers can only be updated to include a new strain when it has already become known. Fortunately we always have the most advanced virus checkers available when the disk is compiled and every program goes through rigorous testing before it appears on our coverdisks. However, we can accept no responsibility for possible damage incurred by viruses which may have escaped our attention.

IF YOUR DISK WON'T LOAD

If your coverdisk doesn't seem to work as it should, then follow this simple guideline. Firstly, remove all unnecessary peripherals, such as printers, modems, etc. Follow the instructions on these pages to the letter, and if after that you find that the disk still doesn't work, call the PC Wise helpline on 0685 350505 between 1030 and 1230 Monday to Friday. If they advise you that the disk is faulty, then pop it in an envelope with a covering letter explaining what the problem is to: CU DISK RETURNS, PC WISE, DOWLAIS TOP BUSINESS PARK, MERTHYR TYDFIL, MID-GLAMORGAN, CF46 2YY. Please include 28p per disk to cover postage and packing (55p for overseas readers). Your disk will be tested and a new, working one dispatched to you as soon as possible. Please note that neither we nor PC Wise accept responsibility for any disks damaged due to negligence on the part of the user.



These screenshots show the effects of the image processing routines.



Path:- DF0:FLEXIDMP/PIC/4AM/#?

HURDLE17.IFF
TUT16.IFF
WHITBYJL.IFF

File:- TUT16.IFF

The program offers a variety\ of printing and dither patterns each of which is ideal for different types of image. Click the dot pattern button to look at the choices.

ing on these we can resize the frame and/or move it around our picture. This can also be done by clicking on 'Manual', which will take us to a larger view. By dragging the frame we can crop the image to the size we want.

If a smaller frame is required then by clicking on the 'Frame' gadget we can reduce its size. The 'Reset' button will restore order if you get in a muddle.

Once the picture is correctly framed, a click on 'OK' will take us to the next screen. Here we can set the distance from the top of the page to where our picture will start to be printed. This can be left alone so click on 'OK' again.

The next screen allows us to shift the position of the print left from the edge of the paper.

Again this is best left set to its default, so click on 'OK' for access to the 'Dump dimensions' screen.

We can resize the entire picture to our heart's content here. The 'Guess' and 'Ratio 1:1' boxes are highlighted as default so that any changes we make, either to the width or length gadgets, will ensure that our output comes out the correct shape.

The 'Pages' box displays how much of our sheet of paper will be taken up with the print. A full width print of 19.8cm will have an 'X' value of 1.0, while its length, 'Y', will be 0.5 or 11.2cm – roughly half A4.

The next screen, 'Gamma correction', can be by-passed for now. We are then presented with the 'Copies' screen. Here we can determine the number of printouts that get sent to the printer, or to disk. A very handy feature.

If you are working late and don't wish to disturb the rest of the household with the clatter of your dot-matrix, then you can send Flexi's output to disk for printing the next day. The file is reloaded using 'Spool', which is an item in the 'Print' pull-down menu, along with 'Poster'.

WOT NO PRINTER!

Apart from being a comprehensive printer manager, Flexi is also a useful image processing tool. With an IFF loaded into the program it is possible to adjust colours and greyscales with easy to use sliders and buttons, then save the results.

The Image pull-down menu is where to access these goodies. 'View' allows you to see the whole picture as it will be printed, or saved to disk.

'Separate' will withdraw the particular information you want from an image just by clicking on one of the many buttons.

The colour separation screen also has facilities for inverting an image physically and chromatically.

The colour operators can only be done one at a time. If you don't like the result, then a click on undo will get back your initial image. However, if you decide to save the result with 'File/Save Pic' then make sure you give the new picture a different name, otherwise you will lose the original.

Color balance gives you the opportunity to vary the brightness, contrast, and saturation (hue) of the picture. Plus the chance to alter the

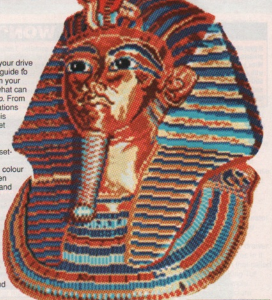
»

We've teamed up with Care Electronics, Flexidump's publishers, to bring you this amazing offer. Make the most of your fantastic cover disk by getting hold of the manual.

FLEXIDUMP 2

MANUAL OFFER

ONLY £9.95



INK AND RIBBON OFFERS

Care also supply a number of colour ribbons and inks for use with a wide range of printers. Here's a selection of them.

T-SHIRT PRINTING RIBBONS

PRINT ON NORMAL PAPER, IRON ON T-SHIRT

4 Colour Citizen Swift	£29.95
4 Colour Citizen Swift (Reload)	£14.95
4 Colour Star LC10	£14.95
4 Colour Star LC200 9 Pin	£19.95
4 Colour Star LC200 9 Pin (Reload)	£12.95
4 Colour Star LC200 24 Pin	£29.95
4 Colour Star LC200 24 Pin (Reload)	£14.95
1 Colour Citizen 120D/Swift	£11.95
1 Colour Star LC10	£11.95
1 Colour Star LC200 9 Pin	£11.95
1 Colour all Star 24 Pin	£11.95
1 Colour Epson FX80/LQ400/MX80	£11.95
1 Colour Epson LX80	£11.95
1 Colour Epson FX100	£11.95
1 Colour Panasonic KXP 1080	£11.95
1 Colour Taxan/Canon 1080A	£11.95
Heat transfer pens 5 large red/orange/yellow/green/blue. Large pens have a marker size nib	£14.95 a set
Heat transfer pens 5 small red/orange/yellow/green/blue. Small pens have fine nib	11.95 a set

T-SHIRT RIBBONS NOW AVAILABLE IN RED, BLUE, GREEN, BROWN, YELLOW AND BLACK FOR A WIDE RANGE OF PRINTERS.
ALL PRICES INCLUDE VAT AND CARRIAGE

COLOUR PRINTER RIBBONS

Don't throw away your plastic printer ribbon cases when the ribbon wears out. Just take the top off, take out the old ribbon and reload it with a new one. It's simple. Full instructions supplied.

RELOADS FOR:

Star LC200 9 Pin 4 Colour (Normal Ink)
1 Reload – £5.99, 5 Reloads – £23.95

Star 24 Pin 4 Colour (Normal Ink)
1 Reload – £6.99, 5 Reloads – £29.95

Citizen Swift 4 Colour (Normal Ink)
1 Reload – £6.99, 5 Reloads – £29.95

Panasonic 4 Colour (Normal Ink)
1 Reload – £6.99, 5 Reloads – £29.95

Ink ribbons also available in gold, silver, magenta, orange, purple, brown, green, blue, red for a wide range of printers.

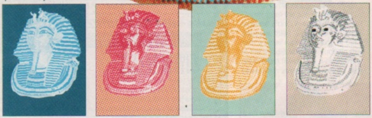
Special re-ink for Panasonic printers and Star LC200 9 Pin black 59ml bottle ......£14.95.

For further details or to order any of these printer inks and ribbons please contact Care Electronics, Dept CUA, 15 Holland Gardens, Garston, Watford, Herts WD2 6JN.
Tel: 0923 894064. Fax: 0923 672102.

With *Flexidump2* in your drive and this essential guide to graphics printing in your hand, you'll be amazed at what can be achieved from *Flexidump*. From letterheads, logos and invitations through to T-shirt printing this manual will enable you to get the most from your printer. Learn how to optimise *Flexidump* for your printing set-up, how to get a hold on its gamma-correction features, colour balancing between on-screen colours and printer colours and how to carry out four-colour separations on a black and white printer.

With time and practice *Flexidump*'s full range of features can be grasped, but why waste all that time learning for yourself when everything you need is contained in one book?

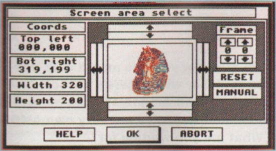
Fill in the coupon below and post it today!



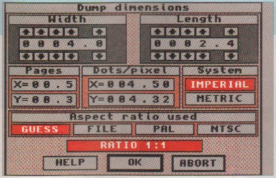
Post your order to: Care Electronics, Flexidump 2 Offer, 15 Holland Gardens, Garston, Watford, Herts WD2 6JN.

Please send me the Flexidump 2 manual @ £9.95 (inclusive of VAT and P&P).
I enclose a cheque/P.O. for £................, made payable to Care Electronics.
OR Please debit my Access/Visa Card. No......................................Expiry Date......................
Card Holder's Name ....
Card Holder's Address...
....Post Code......................
Signature...
Please give delivery address if different from above ....
....Post Code......................

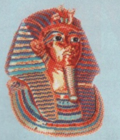
Please allow 28 days for delivery.

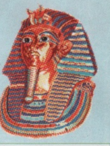


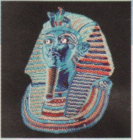
Coords
Top left 000,000
Bot right 319,199
Width 320
Height 200
Frame 0 0

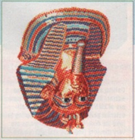


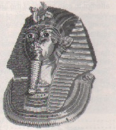
Width 0004.0
Length 0002.4
Pages X=00.5 Y=00.3
Dots/pixel X=004.50 Y=004.32
System IMPERIAL
Aspect ratio used GUESS
RATIO 1:1

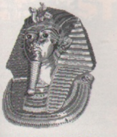












red, green, and blue values in two modes: add and multiply. I won't spoil the fun by telling you what they do. Each operator has a slider control, but the effects are not immediately obvious. A click on the 'draw'' button will change the picture, while 'reset' will take you back to your original and undo to the result of the previous operation.

The next menu, Option, gives access to three more screens. 'Page' lets you set up the number of lines and columns your printer can put onto a particular size of paper. The initial setting is for A4.

'Ink' has a number of presets for various types of printer accessed through a gadget at the bottom of the screen. The idea of this is to help you match the colour output of your printer to those colours you see on TV/monitor.

If a preset does not quite fit the bill, then you can manually adjust the sliders to get the best results by trial and error. When the optimum fit is found the settings should be copied to disk.

The last item in this menu, Sieve, is another bank of sliders that can filter the colour information being sent to the printer.

It is possible to send just the black outlines within a picture to the printer, by reducing all colour values to zero.

COLOUR FROM BLACK AND WHITE

Flexi can be used to get colour output from a mono printer. The gadgets in the Color O/P mode come in to play now. To achieve a polychromatic printout you will need three separate colour ribbons or ink cartridges; one for each complimentary colour: cyan, magenta, and yellow.

The picture is then printed with the yellow ribbon in the printer, and Flexi is set to output only the yellow part of the image. When it is finished the paper is wound back to exactly the point it started from. The cyan ribbon is inserted and the print done again with only cyan col output.

GADGET GLOSSARY

This is the bit where I explain what most of the buttons and gadgets do.

PRINTER CONTROL TERMS

Passes: refers to the number of times the printhead moves over the same strip of paper. Some printers require more than one pass to get a high resolution, usually 9-pin, while 24-pins and inkjets only need one. This will be set by the driver loaded, although you can experiment by changing it to 1 or 2.

Printer density: again refers to resolution, and this is measured in dots per inch (dpi). For draft copies, or special effects, a lower resolution will often suffice and save on ink and time too.

Dot pattern: determines what sort of dither will be used to print the picture. These patterns are used to give the impression of more colours, or greys, than can be output by the printer. Flexi has four patterns in two sizes, 4x4 and 8x8, plus a random dither.

The larger the pattern the more colours are generated, but at a loss in picture resolution. Some patterns do not work well with certain printers or particular sizes of print. So experimentation is required. A rotated pattern will often provide better colour output than a standard one.

Aspect: refers to the way the picture can be printed out. It can be normal, upside down, rotated, or mirror image. This last one is often used for printing onto Tee- shirts so that the resulting graphic is the correct way round when ironed onto the garment.

Ink colours: will be set by the driver. A mono printer will have one, while colour printers can have three or four. Either on one ribbon or in ink reservoirs if of the inkjet variety.

UC Removal: is a technique that saves ink, and improves blacks and greys. It does this by using black ink instead of heavy combinations of C, M, and Y.

Tractor: informs Flexi if you are using the tractor feed instead of friction feed. This method is less accurate for positioning so compensations are made.

Dumps across: sets the number of pictures that can be printed across a page.

IMAGE PROCESSING TERMS

Brightness: if adjusted, will alter all the colour intensities uniformly up or down, but with a loss of detail.

Contrast: affects the intensities of the colours, either pushing them towards the same value, to give a flat uniform image, or at the other extreme, to one primary colour with maximum intensity. Again with a loss of detail if altered.

Saturation: is the intensity of a colour. The higher the saturation the more vivid the colour. A low value will give no colours – grey scale – if brightness and contrast are neutral.

Luminance: shows up the bright and dark areas of the image.

Intensity: reveals how bright the individual colours of the image are, although at first glance it may appear similar in effect to luminance.

Gamma correction: is a method of brightening a picture without affecting the detail too much. Colours are also altered without any colour in particular reaching a maximum or minimum intensity.

COVERDISK 67

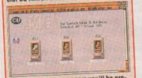
67
AMIGA
WONDERDOG
MEAN ARENAS
1Mb

We've got a triple treat in store for you this month with three, yes three, games for you to tinker with. There's a whole level of the maddeningly-addictive *Mean Arenas*, the complete underground section of *Wonder Dog*, plus our very own AMOS scroller, *Amosteroids*. What are you waiting for?

YOUR QUICKSTART GUIDE TO LOADING DISK 67

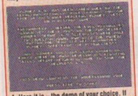
Getting started with disk 67 couldn't be easier. But before you get too eager owners of 1Mb machines must remove all external peripherals before attempting to load the disk. Some of the programs are very memory intensive and will require every drop of memory that your Amiga can give.

1. Switch off your Amiga for at least 30 seconds. Now turn it on again. When your machine asks you for a disk give it what it wants – stick disk 67 in the drive – and wait for our special CU AMIGA menu screen to appear.

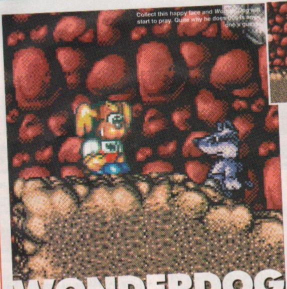


2. When the menu appears you'll be presented with a choice of three programs to play. To load the one you want, simply move the mouse pointer over the icon and left click. If that's a bit too technical, try pressing F1, F2 or F3 and the appropriate program will load.

3. Wait for the program to decrunch. It may take a few seconds. Be patient!



4. Here it is – the demo of your choice. If your machine has failed to load the program please refer to the panel 'If your disk won't load' elsewhere in the coverdisk pages.



Collect this happy face and Wonder Dog will start to pray. Quite why he does this is anyone's guess.

WONDERDOG

In conjunction with Derby-based Core Design, the name behind *Chuck Rock*, we've grabbed a fully playable level of their new platform extravaganza, *Wonder Dog*. The peaceful planet of K-9 has been invaded by the evil Pitbullies in an attempt to gain control of the amazing 'Wonder' serum. In the nick of time a young pup is injected with the serum and sent to a far-off world.

Unfortunately, the ship crashes on Earth and the new *Wonder Dog* must find some way to get back home to beat the Pitbullies silly and save his planet. Hoorah!

In our exciting demo *Wonder Dog* is stuck in an underground cavern

MEAN ARENAS

The first arena is multi-levelled. The lower half is covered in man traps just waiting to snap closed on your leg.

Set a hundred years in the future, *Mean Arenas* places you in control of a desperate game show combatant as he battles for his life and money. Sounds familiar?

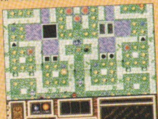
Well, the *Running Man*-type plot paves the way for a fantastic top-down arcade puzzle blaster. Developed by ICE, *Mean Arenas* is the ultimate in game show mayhem.

The aim of the game is to race around complex mazes avoiding the mad robotic guardians and collecting as much cash as you can. If you think that sounds simple you'd be wrong. You start each game without any weapons and must collect what you can from the arena you're in, be careful with their use though as supplies are limited. The mazes are not just complex they're deadly too. Laden with traps and danger zones each arena is huge and you'll really need the scanner in the corner of the screen if you don't want to end up running around like a headless chicken.

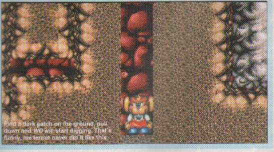
The controls are very easy to grasp – up, down, left and right – and they do exactly what you'd expect. The firebutton releases any weapons you've picked up.

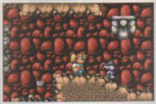
If you want to know more about what to do in the arenas load up your disk and play through the tutorial sections we've provided. These'll tell you exactly what to avoid!

This massive demo is laden with neat touches, for example, Buzz and Bob, the game show's hosts have their own sampled speech and you have the choice of playing in either the normal arena or the speed arena where you're really up against the clock. So, what are you waiting for?



At the start of Arena 01 there's a couple of bombs to collect. So pick 'em up.


Find a dark patch on the ground, pull down and *WD* will start digging. That's funny, me terrier never did it like this.


There are many enemies to avoid. This grey badger is just one. A quick blast with a magic star will soon sort him out.

with no apparent way out. To make matters worse there's hordes of nasty slimy creatures who don't take too kindly to our young hero. It's not all bad news though, 'cos this Dog is far from defenceless. Apart from his heavy beetle-crushing boots, he's got a winged headpiece to help him jump further and a magic star that bounces towards his enemies.

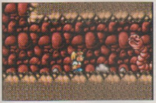
The aim of this demo is to guide *WD* from one end of the complex to the other, dodging or whacking the slimy attackers whilst collecting as many goodies as you can.

The controls are so simple a two year-old could understand 'em.

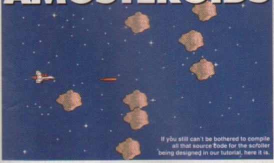
Simply grab your joystick and push left or right to move, up to jump and down to duck. Some areas have very low roofs so you'll need to take a long run up then duck and slide to get through them. If you want to use the magic star press the fire button. It will shoot out when you release it again. The longer you hold the fire button down for the more powerful the resulting blast will be.

If you find yourself stuck with no apparent way on, look around for a dark patch on the ground, stand over it and duck. You'll soon find out how dogs bury their bones! Have fun!

Cor, this worm must have been following the Schwarzenegger Guide to body building.



AMOSTEROIDS


If you still can't be bothered to compile all that source code for the scroller being designed in our tutorial, here it is.

For the past few months our AMOS expert has been helping you get to grips with this amazing product. This month we take a look at constructing a horizontal shoot 'em up and to help you get the grasp of what the finished product should look like we've compiled it and stuck it on this month's coverdisk. It's a mix of *Project X* and *Asteroids*. It's not exactly fantastic, but it will give you a flavour of what to expect. If you want to mess about with the source code itself you'll find that on disk 66.

BETTER KICK START YOUR AMIGA

european computer user

FREEPHONE
0800 318576
Fax: 0480 496379

A small selection from the vast range of titles we stock.
Phone for a complete price list containing over 600 titles.

TITLE	PRICE
1869 (A1200)	19.99
+4D SPORTS BOXING	8.99
+ABANDONED PLACES 2	20.99
+AGONY	10.99
ALIEN BREED 92	8.99
AMOS PRO	23.99
AMOS PRO COMPILER	23.99
+ANOTHER WORLD	16.99
●APOCALYPSE	16.99
+AQUATIC GAMES	10.99
ARABIAN KNIGHTS	15.99
+ASHES OF EMPIRE	8.99
+ASSASIN	15.99
●ATAC	23.99
A-TRAIN	23.99
●A-TRAIN CONS KIT	10.99
+AV8B HARRIER ASSAULT	19.99
B17 FLYING FORTRESS	23.99
+BARBARIAN 2	10.99
BAT 2	21.99
BATTLE ISLE 93	15.99
+BATTLE ISLE	15.99
+BATTLE ISLE DATA DISK	10.99
BEASTLORD	14.99
BILLS TOMATO GAME	10.99
BLADE OF DESTINY	27.99
●BLASTAR	16.99
BODY BLOWS	16.99
+BOSTON BOMB CLUB	4.99
●BURNIN RUBBER	16.99
CAESAR DELUXE	19.99
CAMPAIGN MISSION DISK	11.99
+CAPTIVE	10.99
●CASTLES 2 (A1200)	23.99
+CENTREFOLD SQUARES	6.99
CHAMPIONSHIP MANAGER 93	16.99
CHAOS ENGINE	16.99
+CHUCK ROCK	8.99
+CHUCK ROCK 2	15.99
CIVILIZATION	23.99
●COMBAT CLASSICS 2	19.99
●COMBAT AIR PATROL	19.99
+COOL WORLD	9.99
CREATURES	15.99
+CURSE of ENCHANTIA	15.99
●CYBERSPACE	23.99
+DALEK ATTACK	11.99
DARKSEED	19.99
DESERT STRIKE	20.99
●DIGGERS	17.99
+DOUBLE DRAGON 3	5.99
DOUBLE CONFRONTATION	19.99
+DRAGONS BREATH	7.99

TITLE	PRICE
DUNE 2	19.99
F17 CHALLENGE	9.99
F19 STEALTH FIGHTER	11.99
FLASHBACK	21.99
+FORMULA1GRAND PRIX	17.99
GOAL(1MEG)	19.99
GRAHAM GOOCH CRICKET	19.99
+GLOBAL EFFECT	12.99
●GLOBAL GLADIATORS	16.99
GUNSHIP 2000	23.99
●HERO QUEST 2	16.99
HILL STREET BLUES	7.99
●HIRED GUNS	19.99
+HISTORYLINE	21.99
HUMAN RACE JURASSIC LEVELS	16.99
+HUMANS DOUBLE PACK	24.99
INDY JONES FATE OF ATLANTIS	25.50
+ISHAR-LEGEND OF FORTRESS	10.99
ISHAR 2	19.99
+JAGUAR XJ220	9.99
+JIMMY WHITES SNOOKER	10.99
+KID GLOVES 2	10.99
+KNIGHTMARE	10.99
+LEANDER	10.99
LEMMINGS 2	17.99
+LETHAL WEAPON 3	9.99
LOOM	10.99
●LORD OF THE RINGS 2	19.99
+LOTUS THE FINAL CHALLENGE	13.99
●MAGIC BOY	16.99
MANIAC MANSIONS	9.99
●MAN UTD PREMIER LEAGUE CHAMP	19.99
MEGA TWINS	7.99
+METAL MUTANT	4.99
+MONKEY ISLAND 1	13.99
MONKEY ISLAND 2	25.50
●MORPH	15.99
NAPOLEONICS	23.99
●NICKY 2	16.99
NIPPON SAFES INC.	19.99
NO SECOND PRIZE	15.99
OH NO!MORE LEMMINGS S/A	10.99
OMAR SHARIFFS BRIDGE	20.99
●ONE STEP BEYOND	14.99
OPEN GOLF(1200)	16.99
OPERATION HARRIER	7.99
●OVERDRIVE	16.99
+PERFECT GENERAL	21.99
●PERFECT GENERAL DATA DISK	14.99
PINBALL FANTASTIES	17.99
PIRATES	9.99
+PREMIER MANAGER	13.99
●PRIME MOVER	19.99

TITLE	PRICE
PROJECT X	9.99
+PUTTY	9.99
●QUAK	8.99
+RAILROAD TYCOON	17.99
+RAVING MAD	9.99
REACH FOR THE SKIES	19.99
ROBOCOD	10.99
ROBOCOD A1200	15.99
+ROME AD 92	15.99
SABRE TEAM	15.99
SCRABBLE	17.99
SENSIBLE SOCCER 92/93	16.99
SHADOWORLDS	15.99
+SILENT SERVICE 2	17.99
SIM CITY DELUXE	25.99
SIM LIFE (A1200)	23.99
●SOCCER KID	17.99
●SPACE HULK	23.99
SPACE LEGENDS	20.99
●STAR TREK-NEXT GENERATION	23.99
+STORM MASTER	6.99
●SUPER LEAGUE MANAGER	16.99
SYNDICATE	23.99
TECHNO SOUND TURBO 2	32.99
TERMINATOR 2	7.99
THE GREATEST	19.99
+THEIR FINEST HOUR	15.99
THE PATRICIAN	21.99
+TITUS THE FOX	9.99
TOKI	7.99
+TRODDLERS	10.99
●UNIVERSAL MONSTERS	16.99
WALKER	19.99
WHALE'S VOYAGE	19.99
●WINTER CHALLENGE	23.99
●WONDERDOG	16.99
WOODY'S WORLD	16.99
WORLDS OF LEGEND	16.99
+WWF 2	9.99
YO!JOE!	16.99
+ZOOL	14.99
JOYSTICKS	
CHEETAH BUG	10.99
COMPETITION PRO	11.99
CRUISER (BLACK)	8.99
FOOTPEDAL	18.99
MAVERICK	10.99
MINDSCAPE POWERPLAYERS	5.99
NAVIGATOR	11.99
QUCIKSHOT APACHE	5.99
QUICKSHOT PYTHON	8.99
SPEEDKING (AUTO)	8.99
ZIPSTICK	10.99

All items are subject to availability.

Prices can be subject to change. E&OE.

Post and packing: UK = 75p per item 2nd Class; £1.50 per item 1st Class; £2.00 per item 1st Class Recorded.
E.E.C. = £3.00 per item; Non-E.E.C. = £6.00 per item;
Swift Air E.E.C. = £5.75 per item; Swift Air Non E.E.C. = £9.00 per item
Next Day Courier = £5.00 per consignment (Up to 5kg. Deliveries Mon-Fri Only)
Titles marked with a ● may not be released at time of going to press. Please telephone for availability and a full copy of our terms and conditions.
Titles marked with a + are available at the price shown while stocks last.

VISA

MasterCard

OPEN ALL DAY SATURDAY

NAME
ADDRESS

POSTCODE PHONE
ITEM PRICE
ITEM PRICE
ITEM PRICE
(Please indicate if you require Disk or CD-ROM)
POSTAGE
TOTAL

Visa/Mastercard/Switch Number:
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Switch issue No: Card Expiry Date:

SIGNATURE: ______________________

Make cheques payable to:
European Computer User
& send to:
Units A2/A3 Edison Rd,
St Ives, Huntingdon,
CAMBS PE17 4LF

CHUCK ROCK 2
9.99

HEROQUEST + DD
8.49

DARK QUEEN OF KRYNN
9.49

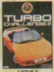
ISHAR 2
17.99

FLASHBACK
20.49

SUPER FROG
16.49

SYNDICATE
21.99

LEMMINGS 2
16.99


LOTUS 2
9.49

LOTUS 3
9.99

PROJECT X
9.99

SENSI SOCCER
13.99

POOLS OF DARKNESS
9.49

GUNSHIP 2000
22.49

ULTIMA 5
9.99

POWER UP
9.99

HOOK
11.99

CHAMP MANAGER 1
12.99

CHAMP MAN 93/94
17.49

S OF MONKEY ISLAND
13.99

DESERT STRIKE
18.99

AIR/SEA SUPREM
13.49

FIRST SAM/MEGA
13.49

SILENT SERVICE 2
13.99

RAVING MAD
12.49

PREMIER MANAGER
13.99

ZOOL
9.99

BODY BLOWS
16.49

CURSE OF ENCHANTIA
12.99

WING COMMANDER
9.99

PRO TENNIS 2
11.99

F1 GRAND PRIX
14.99

BATTLE OF BRIT
12.49

Games marked NOP will not work on A500 Plus, A600 or A1200. Games marked NO12 will not work on the A1200.

AMIGA GAMES

A-TRAIN (1 MEG)	22.49
A-TRAIN CONSTRUCTION SET (1 MEG)	11.99
A.T.A.C (1 MEG)	21.99
A320 AIR-BUS (1 MEG) (NOP)	18.49
A320 AIRBUS (USA VERSION) (1 MEG)	21.99
ADDAMS FAMILY (1 MEG)	9.49
AIR BUCKS	17.99
AIR SEA SUPREMACY (GUNSHIP, SILENT SERVICE, P47, WINGS, CARRIER COMMAND) (NO12)	13.49
AIR SUPPORT	17.99
AIR, LAND & SEA (688 ATTACK SUB, INDY 500, F18 INTERCEPTOR) (NO12)	22.99
AIRBUCKS 1.2 (A1200 VERSION)	17.99
ALCATRAZ	16.99
ALIEN BREED (SPECIAL EDITION) (1 MEG)	8.99
AMBERSTAR	17.99
ANOTHER WORLD	16.99
APOCALYPSE (1 MEG)	19.99
ARABIAN NIGHTS	15.99
ASSASSIN (1 MEG)	11.99
AV8B HARRIER ASSAULT	21.99
B.A.T 2	22.99
B17 FLYING FORTRESS (1 MEG)	22.99
BATTLE ISLE	13.49
BATTLE ISLE 93	15.99
BATTLE ISLE DATA DISK	13.99
BATTLE OF BRITAIN	12.49
BODY BLOWS (1 MEG)	16.49
BODY BLOWS (A1200 VERSION)	18.99
CADAVER (NO12)	8.99
CAESAR (1 MEG) (NO12)	17.99
CAESER DELUXE	17.99
CAMPAIGN (1 MEG)	21.99
CASTLES 2 (A1200 VERSION)	21.99
CELTIC LEGENDS	15.99
CHAMPIONSHIP MANAGER (1 MEG)	12.99
CHAMPIONSHIP MANAGER 93/94 (1 MEG)	17.49
CHAOS ENGINE	16.99
CHUCK ROCK (NO12)	8.99
CHUCK ROCK 2 (1 MEG)	9.99
CIVILISATION (1 MEG)	22.99
COMBAT AIR PATROL	19.99
COMBAT CLASSICS (F15 STRIKE EAGLE 2, 688 ATTACK SUB, TEAM YANKEE) (1 MEG) (NO12)	19.49
COOL WORLD (1 MEG)	17.49
CURSE OF ENCHANTIA (1 MEG)	12.99
D-DAY	19.99
DARK QUEEN OF KRYNN (1 MEG)	9.49
DARKMERE (1 MEG)	16.99
DARKSEED (1 MEG)	20.99
DESERT STRIKE (1 MEG)	18.99
DIZZY PRINCE YOLKFOLK	7.49
DIZZY'S EXCELLENT ADVENTURE	15.99
DOODLEBUG	13.99
DUNE (1 MEG)	18.99
DUNE 2 - BATTLE FOR ARRAKIS (1 MEG)	19.99
DYNA BLASTERS	19.99
ELITE	1.99
ELITE 2 (FRONTIER)	21.99
EPIC (1 MEG)	19.49
EYE OF THE BEHOLDER (SSI) (1 MEG)	19.99
EYE OF THE BEHOLDER 2 (1 MEG)	23.99
F15 STRIKE EAGLE 2 (1 MEG)	11.99
F17 CHALLENGE	9.99
F19 STEALTH FIGHTER (NOP)	13.99
FABLES & FIENDS - LEGEND OF KYRANDIA (NO12) (1 MEG)	23.49
FACE OFF ICE HOCKEY (NO12)	8.99
FANTASTIC WORLDS (REALMS, PIRATES, MEGA LO MANIA, POPULOUS, WONDERLAND) (1 MEG) (NO12)	22.99
IRST DIVISION MANAGER	7.49
FIRST SAMURAI + MEGA LO MANIA (NO12)	13.49
FLAMES OF FREEDOM (MIDWINTER 2)	11.49
FLASHBACK (1 MEG)	20.49
FORMULA 1 GRAND PRIX	14.99
GENESIA (1 MEG)	17.99
GOAL	19.99
GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG)	17.99
GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG)	10.99
GUNSHIP 2000 (1 MEG)	22.49
HEIMDALL (1 MEG) (NO12)	11.99
HEROQUEST + DATA DISK (NO12)	8.49
HEROQUEST 2 - THE LEGACY OF SORASIL (1 MEG)	16.99
HILL STREET BLUES (NO12)	8.99
HISTORYLINE 1914-18 (1 MEG)	22.49
HOLLYWOOD COLLECTION (ROBOCOP, GHOSTBUSTERS 2, INDIANA JONES ACTION, BATMAN THE MOVIE) D/S (NOP)	10.49
HOOK	11.99
HUNTER (NO12)	7.49
INDIANA JONES ADVENTURE	10.99
INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG)	23.99
INDY JONES (ACTION)	7.49
SHAR - LEGEND OF THE FORTRESS (1 MEG)	10.49
ISHAR 2 - LEGIONS OF CHAOS (1 MEG)	17.99
T CAME FROM THE DESERT PLUS ANT HEADS DATA DISK (1 MEG)	12.99
JACK NICKLAUS GOLF	7.99
JAGUAR XJ220 (1 MEG)	10.99
JIMMY WHITES SNOOKER	15.49
JOHN MADDEN'S (U.S) FOOTBALL	17.49
JURASSIC PARK (1 MEG)	17.49
JURASSIC PARK (A1200 VERSION)	18.99
KGB	19.99
KICK OFF 2 (1 MEG) (NO12)	8.99
KNIGHTS OF THE SKY (1 MEG)	13.49
LEMMINGS	12.49
LEMMINGS DATA DISK - OH NO!	8.99
LEMMINGS 2	16.99
LETHAL WEAPON (1 MEG)	16.99
LIONHEART	17.49
LOMBARD RAC RALLY	7.49
LORD OF THE RINGS	16.99
LORD OF THE RINGS 2 - TWO TOWERS (1 MEG)	19.99
LOST VIKINGS	19.49
LOTUS ESPRIT TURBO CHALLENGE (NO12)	8.99
LOTUS TURBO CHALLENGE 2 (NO12)	9.49
LOTUS 3 - THE FINAL CHALLENGE (1 MEG) (NO12)	9.99
LURE OF THE TEMPTRESS (1 MEG)	19.99
M1 TANK PLATOON (1 MEG)	10.99
MAGIC WORLDS (STORM MASTER, DRAGONS BREATH, CRYSTALS OF ARBOREA) (NO12)	15.99
MAGICLAND DIZZY	7.49
MANCHESTER UNITED	8.99
MANCHESTER UNITED EUROPE	8.99
MANIAC MANSION (NO12)	9.99
McDONALDS LAND	17.49
METAL MUTANT (NO12)	8.49
MICROPROSE 3D GOLF (1 MEG)	13.99
MIDNIGHT RESISTANCE (NO12)	7.49
MIDWINTER (NO12)	9.99
MIG 29 (1 MEG)	9.99
MONOPOLY	17.99
MONSTER PACK 2 (KILLING GAME SHOW, AWESOME, BEAST 2) (NO12)	14.99
NEW ZEALAND STORY (NO12)	7.49
NICK FALDO'S GOLF	20.99
NICKY BOOM 2	16.49
NIGEL MANSELL'S WORLD CHAMP'SHIP (1 MEG)	15.49
NIGEL MANSELL'S WORLD CHAMP'SHIP (A1200 VERSION)	18.49
NIPPON SAFES (1 MEG)	19.99
NO SECOND PRIZE	16.49
NUCLEAR WAR	9.99
ONE STEP BEYOND (1 MEG)	14.49
OVERDRIVE (1 MEG)	16.49
PANG	7.49
PANZA KICK BOXING (NO12)	8.49
PATRICIAN (1 MEG)	19.99
PERFECT GENERAL	22.49
PERFECT GENERAL DATA DISK	13.99
PGA TOUR GOLF + COURSES	19.49
PGA TOUR GOLF COURSE DISK	11.49
PINBALL DREAMS (1 MEG)	12.99
PINBALL FANTASIES	17.99
PIRATES (NOP)	9.99
PLAYER MANAGER (NO12)	8.99
POOLS OF DARKNESS	9.49
POPULOUS & SIM CITY	16.99
POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK	21.99
POPULOUS 2 CHALLENGE DATA DISK (1 MEG)	11.99
POWER UP (CHASE H.Q. TURRICAN, X-OUT, ALTERED BEAST, RAINBOW ISLANDS)	9.99
POWERMONGER (NO12)	19.49
POWERMONGER WW 1 DATA DISK (NO12)	11.49
PREMIER MANAGER (1 MEG)	13.99
PREMIER MANAGER 2 (1 MEG)	15.99
PREMIERE (1 MEG)	11.99
PRIME MOVER	19.49
PRINCE OF PERSIA (1 MEG)	7.49
PRO TENNIS TOUR 2	11.99
PROJECT X (SPECIAL EDITION) (1 MEG)	9.99
PUSH-OVER (1 MEG)	16.99
PUTTY	12.99
QUEST & GLORY (BLOODWYCH, MIDWINTER, CADAVER, BAT) (NO12)	13.99
RAILROAD TYCOON (1 MEG)	13.99
RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS, NEW ZEALAND STORY) (NOP)	9.99
RAVING MAD (MEGA TWINS, JAMES POND 2 - ROBOCOD, RODLAND)	12.49
RBI BASEBALL 2 (NOP)	18.99
REACH FOR THE SKIES	19.99
RICK DANGEROUS (NO12)	7.49
RISKY WOODS	17.49
ROBOCOD AEG (A1200 VERSION)	17.49
ROBOCOP 2	7.49
ROBOCOP 3 (NO12)	11.49
ROLLING RONNY (NO12)	8.99
ROME (1 MEG)	19.49
ROOKIES	19.99
SABRE TEAM	11.49
SCRABBLE (US GOLD)	18.99
SECRET OF MONKEY ISLAND (1 MEG)	13.99
SECRET OF MONKEY ISLAND 2 (1 MEG)	23.99
SHUTTLE (1 MEG)	14.49
SILENT SERVICE 2 (1 MEG) (NOP)	13.99
SIM CITY DELUXE (SIM CITY, FUTURE CITIES & TERRAIN EDITOR)	22.49
SIMON THE SORCERER (1 MEG)	21.99
SIMON THE SORCERER (A1200 VERSION)	24.99
SLEEPWALKER	20.49
SOCCER KID	18.49
SPACE CRUSADE (NO12)	12.99
SPACE CRUSADE DATA DISK (NO12)	10.99
SPECIAL FORCES (1 MEG)	13.99
SPORTS MASTERS (PGA GOLF, INDY 500, ADVANTAGE TENNIS, EUROPEAN CHAMPIONSHIP'S 1992) (1 MEG) (NO12)	19.99
STAR TREK - 25TH ANNIVERSARY (A1200 VERSION)	21.99
STREETFIGHTER 2	18.49
STUART PEARCE'S SOCCER SELECTION'S (KICK OFF 2, WORLD CHAMPIONSHIP SOCCER, MANCHESTER UNITED, INTERNATIONAL SOCCER) (NO12)	12.99
STUNT CAR RACER (NO12)	7.49
UPER FROG (1 MEG)	16.49
SYNDICATE (1 MEG)	21.99
HUNDERHAWK	10.49
TITUS THE FOX	8.99
TRANSARCTICA	17.99
TV SPORTS FOOTBALL (NO12)	6.99
ULTIMA 5 (NO12)	9.99
UNIVERSAL MONSTERS	16.99
UTOPIA + DATA DISK	11.49
UTOPIA 2 (1 MEG)	17.99
VIKINGS - FIELD OF CONQUEST (1 MEG)	10.99
VROOM (NO12)	12.99
WALKER	19.49
WAR IN THE GULF	19.49
WAXWORKS (1 MEG)	22.49
WING COMMANDER 1 (1 MEG)	9.99
WIZ-KID	16.99
XENON 2 MEGABLAST	9.99
ZAK MCKRACKEN (NO12)	9.99
ZOOL (1 MEG)	9.99
ZOOL (A1200 VERSION)	17.99
ZOOL 2 (1 MEG)	16.49

AMIGA EDUCATIONAL

ADI ENGLISH (11-12 YRS)	16.49
ADI ENGLISH (12-13 YRS)	16.49
ADI ENGLISH (13-14 YRS)	16.49
ADI ENGLISH (14-15 YRS)	16.99
ADI FRENCH (11-12 YRS)	16.49
ADI FRENCH (12-13 YRS)	16.49
ADI FRENCH (13-14 YRS)	16.49
ADI JUNIOR COUNTING (4-5 YRS)	13.99
ADI JUNIOR COUNTING (6-7 YRS)	13.99
ADI JUNIOR READING (4-5 YRS)	13.99
ADI JUNIOR READING (6-7 YRS)	13.99
ADI MATHS (11-12 YRS)	16.49
ADI MATHS (12-13 YRS)	16.49
ADI MATHS (13-14 YRS)	16.49
ALVIN'S PUZZLES (6-8 YRS)	13.49
AMOS EASY (FIRST STEPS TO PROGRAMMING)	21.99
BETTER MATHS (12-16 YRS)	16.99
BETTER SPELLING (8-ADULT)	16.99
FUN SCHOOL 2 (2-6)	7.99
FUN SCHOOL 2 (6-8)	7.99
FUN SCHOOL 2 (8+)	7.99
FUN SCHOOL 3 (2-5 YRS)	13.99
FUN SCHOOL 3 (5-7 YRS)	13.99
FUN SCHOOL 3 (7+ YRS)	13.99
FUN SCHOOL 4 (2-5 YRS)	15.99
FUN SCHOOL 4 (5-7 YRS)	15.99
FUN SCHOOL 4 (7+ YRS)	15.99
FUN SCHOOL SPECIAL - MERLIN'S MATHS (7-11 YRS)	16.49
FUN SCHOOL SPECIAL - PAINT 'N CREATE EDUCATIONAL ART (5+ YRS)	16.49
FUN SCHOOL SPECIAL - SPELLING FAIR (7-13 YRS)	16.49
MAGIC MATHS (4-8 YRS)	16.99
MATHS MANIA (8-12 YRS)	16.99
MEGA MATHS (A' LEVEL COURSE)	16.99
MICRO ENGLISH	16.99
MICRO FRENCH	16.99
MICRO GERMAN	16.99
MICRO MATHS	16.99
MICRO SCIENCE(1 MEG)	16.99
NODDY'S PLAYTIME (EDUCATIONAL PROGRAM FOR CHILDREN AGED 3+) (1 MEG)	16.99
PAINT POT 2 (4-10 YRS)	13.49
SHOPPING BASKET (6-8 YRS)	13.49
WHICH? WHERE? WHAT? (4-8 YRS)	13.49
WIND IN THE WILLOWS (EDUCATIONAL ADVENTURE GAME FOR CHILDREN)	16.99

AMIGA UTILITY

3D CONSTRUCTION KIT (WITH FREE TUTORIAL VIDEO)	11.99
3D CONSTRUCTION KIT 2	31.99
AMOS (GAMES CREATOR)	29.99
AMOS 3D (REQUIRES AMOS)	21.99
AMOS COMPILER (REQUIRES AMOS)	19.49
AMOS EASY (FIRST STEPS TO PROGRAMMING)	21.99
AMOS PROFESSIONAL (MORE COMPLEX VERSION OF AMOS)	31.99
AMOS PROFESSIONAL COMPILER (COMPILES AND SPEEDS UP PROGRAMS WRITTEN IN AMOS, EASY AMOS OR AMOS PROFESSIONAL)	23.99
DELUXE PAINT 3 (WITH ANIMATION)	9.99
DELUXE PAINT 4 (1 MEG) (HAM MODE & ANIMATION)	54.99
DELUXE PAINT 4 (AGA FOR AMIGA 1200 WORKS IN 256 COLOUR AND NEW 8-BIT HAM MODE)	59.99
FUN SCHOOL SPECIAL - PAINT 'N CREATE EDUCATIONAL ART (5+ YRS)	16.49
HOME ACCOUNTS	4.99
HOME ACCOUNTS 2	34.99
HOME OFFICE KIT DELUXE (KIND WORDS 3 (WORD PROCESSOR), MAXI PLAN 4 (SPREADSHEET), AND INFOFILE (BUSINESS UTILITIES)). REQUIRES ONE EXTERNAL DISK DRIVE OR HARD DRIVE. (1 MEG)	59.99
KID PIX (1 MEG)	18.99
KIND WORDS 3 WORD PROCESSOR	29.99
MINI OFFICE (WORD PROCESSOR, SPREADSHEET, DATABASE AND DISK UTILITIES)	34.99
PEN PAL WORD PROCESSOR	54.99
POWERWORKS (MAXIPLAN PLUS SPREADSHEET, KIND WORDS 2 WORD PROCESSOR INFOFILE DATABASE) (NOP)	24.99
PUBLISHER (PAGE LAYOUT PACKAGE). CAN PRODUCE BLACK AND WHITE NEWSLETTERS, FLYERS, ANNUAL REPORTS AND MAGAZINES. REQUIRES ONE EXTERNAL DISK DRIVE OR HARD DRIVE (1 MEG) (NO12)	29.99
TECNOPLUS BUSINESS PACK FOR AMIGA (WORDWORTH WORD PROCESSOR, K-SPREAD 2 SPREADSHEET AND K-DATA DATABASE) (1 MEG)	71.49
WORDWORTH V.2 WORD PROCESSOR (1 MEG)	75.99
WORDWORTH V1.1E AMIGA 500 PLUS WORD PROCESSOR (SPECIAL ENHANCED 2 MEG VERSION WITH 1 MEG UPGRADE FOR A500P)	79.99
WORDWORTH V1.1E AMIGA 600 WORD PROCESSOR (SPECIAL ENHANCED 2 MEG VERSION WITH 1 MEG UPGRADE FOR A600)	94.99

DISK DRIVES

EXTERNAL 3.5" DISK DRIVE WITH SONY/CITIZEN DRIVE MECHANISM. 880K FORMATTED CAPACITY, QUIET, HIGH QUALITY, SLIM LINE DESIGN, COLOUR MATCHED METAL CASE AND LONG REACH CONNECTION CABLE.

EXTERNAL DISK DRIVE FOR AMIGA	54.99
CUMANA EXTERNAL 3.5" DISK DRIVE FOR AMIGA (VERY HIGH QUALITY)	69.99
ZYDEC INTERNAL REPLACEMENT DISK DRIVE FOR AMIGA. REPLACES EXISTING DRIVE. INVALIDATES WARRANTY WHEN FITTED.	47.99

HARD DRIVES

GVP A530 TURBO HARD DRIVES FOR A500 OR A500P. WITH 40MHz 68030EC ACCELERATOR BOARD BUILT-IN. INCREASES THE SPEED OF YOUR COMPUTER SIGNIFICANTLY. I MEG RAM INCLUDED, EXPANDABLE TO 8 MEG. AWARD WINNING DESIGN. IDEAL FOR USE WITH SPREADSHEETS, DTP AND WORD PROCESSING PROGRAMS.

GVP A530 (120MB) TURBO HARD DRIVE	639.99
GVP A530 (80Mb) TURBO HARD DRIVE	549.99
GVP HD8+ 42 MEGABYTE AMIGA A500 AND A500 PLUS HARD DRIVE (SERIES II), RAM EXPANDABLE TO 8 MEG (SIMMS), PC EMULATOR SOCKET	254.99

TOSHIBA IDE HARD DRIVE FOR AMIGA A600 OR A1200. INCLUDES EVERYTHING NECESSARY TO FIT INTERNALLY. INVALIDATES WARRANTY WHEN FITTED.

TOSHIBA 40Mb IDE HARD DRIVE	114.99
TOSHIBA 80Mb IDE HARD DRIVE	194.99

JOYSTICK EXTRAS

PORT EXTENSION ADAPTOR FOR AMIGA (CHANGE JOYSTICKS WITHOUT NEEDING TO REACH BEHIND COMPUTER)	5.99
ROBOSHIFT INTERFACE FOR AMIGA (PLUGS MOUSE & JOYSTICK INTO ONE PORT)	12.99

MEMORY UPGRADES

512K AMIGA RAM WITH CLOCK FOR A500 AND A500+	29.99
512K AMIGA RAM WITHOUT CLOCK FOR A500 AND A500+	24.99
1 MEGABYTE A500 PLUS RAM UPGRADEWITH CLOCK	32.99
1 MEGABYTE A600 RAM UPGRADEWITH CLOCK	39.99
2 MEG PCMCIA UPGRADE FOR A600 OR A1200. PLUGS DIRECTLY INTO SMART CARD SLOT. THESE ARE NOT BATTERY BACKED AND CAN'T BE USED AS A DISK, ONLY AS RAM.	114.99
4 MEG PCMCIA UPGRADE FOR A600 OR A1200. PLUGS DIRECTLY INTO SMART CARD SLOT. THESE ARE NOT BATTERY BACKED AND CAN'T BE USED AS A DISK, ONLY AS RAM.	164.99

CLEANING

CLEANING KIT FOR COMPUTERS (INCLUDES VACUUM)	19.99

DUST COVERS

DUST COVER FOR A1200 (CLEAR PVC)	4.99
DUST COVER FOR A600	4.99
DUST COVER FOR AMIGA A500 OR ATARI ST (CLEAR PVC)	4.99
DUST COVER FOR MONITOR (CLEAR PVC)	4.99

LEADS

HI-FI LEAD FOR AMIGA (STANDARD PHONO INPUT)	3.99
MONITOR LEAD FOR AMIGA TO PHILIPS CM8833 MK2 MONITOR	7.99
NULL MODEM CABLE	7.99
SCART LEAD FOR AMIGA TO GOLDSTAR TELEVISION	9.99
SCART LEAD FOR AMIGA TO SONY TELEVISION	9.99
SCART LEAD FOR AMIGA TO TELEVISION WITH SCART INPUT (GIVES MONITOR QUALITY PICTURE)	9.99
SCART TO SCART LEAD FOR TV TO VIDEO (GIVES EXCEPTIONAL ENHANCED QUALITY PICTURE)	8.99

HAND SCANNERS

POWER SCAN HAND SCANNER FOR AMIGA (VERSION 3). TRUE GREY SCALE, 100-400DPI (INCLUDES SOFTWARE)	104.99

WORK CENTRES

DELUXE WORK CENTRE (RSD) (STEEL MONITOR STAND WITH EXTRA SHELF FOR EXTERNAL DISK DRIVE AND ACCESSORIES, MOUSE HOLDER, MOUSE MAT AND ALL IN ONE DUST COVER)

DELUXE WORK CENTRE (RSD) FOR AMIGA A1200	42.99
DELUXE WORK CENTRE (RSD) FOR AMIGA A500 OR A500 P	44.99
PREMIER CONTROL CENTRE FOR AMIGA A600 (STEEL MONITOR STAND WITH EXTRA SHELF FOR EXTERNAL DISK DRIVE AND ACCESSORIES. CUSTOM FIT FOR THE A600)	32.99

MUSIC & SOUND EQUIPMENT

GVP DIGITAL SOUND STUDIO. STEREO SOUND SAMPLER FOR AMIGA 500, 600 AND 1200. EXCELLENT SOFTWARE PACKAGE INCLUDED.	37.99
SCREENBEAT STEREO SPEAKERS FOR AMIGA OR IBM PC. REQUIRES 4AA BATTERIES OR MAINS ADAPTOR. DESIGNED SPECIFICALLY FOR COMPUTERS, INCLUDING MOUNTINGS FOR ATTACHMENT TO MONITOR.	18.99
MAINS ADAPTOR FOR SCREENBEAT SPEAKERS	7.99

VIDEO EQUIPMENT

ROCTEC GENLOC PLUS FOR AMIGA.	144.99
VIDI AMIGA 12 (CAPTURES COLOUR IMAGES FROM VIDEO MACHINE OR CAMCORDER. COMPATIBLE WITH TAKE 2, DELUXE PAINT 4 AND MOST ART PACKAGES)	72.99

POWER SUPPLY

ZYDEC AMIGA POWER SUPPLY (SPECIAL COOL RUNNING TRANSFORMER)	32.99

DISKS & DISK BOXES

BANX DISK BOX 3.5" (110) STACKABLE	13.99
BANX DISK BOX 3.5" (80) STACKABLE	12.49
DELUXE DISK BOX 3.5" (80), LOCKABLE, DIVIDERS	9.99
DISK BOX 3.5" (10 CAPACITY)	1.99
DISK BOX 3.5" (120) LOCKABLE, DIVIDERS	9.99
PACK OF 10 VERBATIM 3.5" DSDD DISKS WITH LABELS (BRANDED)	7.99
PACK OF 50 VERBATIM 3.5" DSDD DISKS WITH LABELS (BRANDED)	27.99

VERBATIM
3.5" DSDD DISKS
WITH LABELS
PACK OF 10
7.99
GG9137
PACK OF 50 27.99
GG5535

NEW MEMBERS DISCOUNT - EXTRA £2.00 OFF

New members deduct £2.00 from any one item ordered as you join. (Offer closes 30.9.93)

STAR BUY
FREE

COMMODORE AMIGA A600 LEMMINGS PACK 1/0

WITH BUILT-IN TV MODULATOR, MOUSE, WORKBENCH 2.0, 1 MEG RAM EXPANDABLE TO 10 MEG, 1 YEAR IN-HOME SERVICE WARRANTY, FREE LEMMINGS GAME AND DELUXE PAINT 3.

174.99

AVAILABLE WITH 80 MEG HARD DRIVE
FREE

COMMODORE AMIGA A1200 LEMMINGS PACKS

MOUSE, BUILT-IN TV MODULATOR, 2 MEG RAM EXPANDABLE TO 10 MEG, WORKBENCH 3.0, 32 BIT MOTOROLA 68020 PROCESSOR RUNNING AT 14 MHz. NEW AGA GRAPHICS CHIPSET, 1 YEAR IN-HOME SERVICE WARRANTY, FREE LEMMINGS AND DELUXE PAINT 3

COMMODORE A1200 2/0 LEMMINGS PACK

259.99

COMMODORE A1200 2/80 LEMMINGS PACK WITH 80 MEG HARD DRIVE

499.99

COMMODORE AMIGA CD-32

THE LATEST & HOTTEST CD BASED CONSOLE WITH A1200 POWER 256,000 COLOURS FROM 16 MILLION, FAST 68020 PROCESSOR, 2MB RAM, 11 BUTTON JOYPAD CAN PLAY AUDIO CD'S AND CD+G DISCS EXPANSION CAPABILITIES FOR FULL MOTION VIDEO LARGE SELECTION OF GAMES DUE VERY SOON.

285.99

COMMODORE AMIGA A4000/030 2/80

COMPUTER FOR HOME & PROFESSIONAL USE. WITH 80 MEG INTERNAL HARD DRIVE, POWERFUL 68030 PROCESSOR (25Mhz), 2 MEG RAM, 1 YEAR IN-HOME WARRANTY, WORKBENCH 3.0 AND MOUSE. MONITOR NOT INCLUDED.

SOME SOFTWARE IS NOT COMPATIBLE

929.99

GOLDSTAR 14" COLOUR TELEVISION/MONITOR

WITH REMOTE CONTROL & SCART INPUT
FREE SCART LEAD (STATE SNES, SEGA OR AMIGA)
GIVES PIXEL PERFECT PICTURE

154.99

COMMODORE 1084ST COLOUR STEREO MONITOR

FOR ANY AMIGA
1 YEAR WARRANTY
OFFICIAL UK VERSION
FREE AMIGA MONITOR LEAD
& *FREE* TILT AND SWIVEL MONITOR STAND

189.99

SONY 14" FST COLOUR TELEVISION/MONITOR

MODEL KVM1400WITH REMOTE CONTROL
FREE SCART LEAD (STATE SNES, SEGA, AMIGA or ST)
AND £20 OFF AN ITEM OFFER
DEDUCT £20 OFF OUR PRICE OF ANY ITEM (OR THE TOTAL OF SEVERAL ITEMS PURCHASED AT THE SAME TIME AS THIS SONY TV

199.99

AVAILABLE IN GREY OR WHITE

SONY TV/MONITOR ENABLES MONITOR QUALITY PICTURE FROM AMIGA, SUPER NES, ST OR MEGADRIVE VIA SCART CONNECTION. ALSO SUITS ALL CONSOLES VIA NORMAL RF INPUT. INCLUDES REAR SCART/EURO. 60 CHANNEL TUNING. BLACK TRINITRON SCREEN, TWO POSITION TILT DESIGN FOR CHOICE OF ANGLE. INCLUDES LOOP AERIAL. SUPERB QUALITY.

CITIZEN 120D+ 9-PIN MONO PRINTER

80 COLUMN , 144 CPS/25NLQ, 2NLQ/1 DRAFT FONT, 2 YEAR WARRANTY
FREE PRINTER LEAD **124.99**

CITIZEN SWIFT 90C 9-PIN COLOUR PRINTER

9 PIN, 80 COLUMN 240CPS/54NLQ 6NLQ FONTS, 2 YEAR WARRANTY
FREE PRINTER LEAD **164.99**

CITIZEN 200 24-PIN COLOUR PRINTER

WITH COLOUR KIT, 24 PIN, 80 COLUMN 216CPS/72LQ6 LQ/1 DRAFT FONT, AUTO SET FACILITY, INPUT DATA BUFFER, AUTO PAPER LOADING, ENVELOPE PRINTING, 2 YEAR WARRANTY
FREE PRINTER LEAD **216.99**

CITIZEN 240C 24-PIN COLOUR PRINTER

WITH COLOUR KIT, 24 PIN, 80 COLUMN, 240CPS/80LQ 9 LQ/1 DRAFT FONT, 2 YEAR WARRANTY
FREE PRINTER LEAD **259.99**

CANON BJ-10SX BUBBLE JET PRINTER

64 NOZZLE, 80 COLUMN, 110LQ CPS 2LQ/3 DRAFT FONT, 1 YEAR WARRANTY
FREE PRINTER LEAD **215.99**

SEGA MEGADRIVE 2 + SONIC 2 TWO SEGA JOYPADS

109.99

SUPER NES + MARIO ALL STARS WITH ONE NINTENDO JOYPAD

109.99

CHEETAH BUG JOYSTICK (AMIGA FORMAT GOLD)
13.99

MINI COMPETITION PRO 5000 JOYSTICK
12.99

QUICKJOY TOP STAR JOYSTICK
19.99

SPEEDKING ANALOGUE JOYSTICK FOR AMIGA (FOR PROPORTIONAL CONTROL ON SUITABLE SOFTWARE)
12.99

ALFA MEGAMOUSE 1 FOR AMIGA OR ATARI ST. AWARD WINNING DESIGN. BEST FOR DESIGN/ART PACKAGES
14.99

ALFA MEGAMOUSE 2 FOR AMIGA OR ATARI ST. 260 DPI, HIGH QUALITY MOUSE FOR A BUDGET PRICE.
12.99

COMPETITION PRO EXTRA JOYSTICK (CLEAR BASE)
10.99

MINI COMPETITION PRO STAR JOYSTICK WITH AUTOFIRE
15.99

QUICKSHOT 128F MAVERICK 1 JOYSTICK 12.99

QUICKJOY FOOT PEDAL FOR AMIGA OR ST. TRANSFERS ANY JOYSTICK FUNCTIONS TO FOOT PEDALS. IDEAL FOR FLIGHT AND CAR SIM'S. COMPATIBLE WITH MOST AMIGA AND ATARI ST GAMES AND CAN WORK IN CONJUNCTION WITH FOOT PEDAL.......19.99

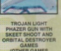
SUPER PRO ZIP STICK JOYSTICK FOR AMIGA OR ST WITH AUTOFIRE FUNCTION
12.99

ALFA OPTIC MOUSE FOR AMIGA 300 DPI, NO MOVING PARTS, EXTREMELY SMOOTH AND RELIABLE MOUSE.
29.99

FREEWHEEL STEERING WHEEL (DIGITAL) FOR AMIGA (WORKS AS A JOYSTICK OR WITH FOOTPEDAL) SUITS MOST DRIVING GAMES
25.99

QUICKJOY JET FIGHTER JOYSTICK
11.99

QUICKSHOT 137F PYTHON JOYSTICK
9.99



TROJAN LIGHT PHAZER GUN WITH SKEET SHOOT AND ORBITAL DESTROYER GAMES (OTHER GAMES AVAILABLE - SEE "TROJAN" IN SOFTWARE LISTINGS)

TROJAN GUN FOR AMIGA
29.99

DRAGON MOUSE FOR AMIGA 280 DPI.
12.49

ZYDEC TRACKBALL
22.99

MOUSE MATS JUNGLE SCENE DOLPHIN SCENE
5.99 EACH

MOUSE MAT (PLAIN)
4.99

GRAVIS JOYSTICK FOR AMIGA WITH FOAM PADDED GRIP, ADJUSTABLE HANDLE TENSION AND PROGRAMMABLE FIRE BUTTONS
23.49

QUICKJOY QJ1 JOYSTICK (MICROSWITCHED)
7.99

QUICKSHOT 155 AVIATOR 1 JOYSTICK
23.99

We only supply official UK products. Official suppliers of all leading brands. We sell games and peripherals all at amazing prices for Megadrive, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, PC, CD ROM and Apple Mac. And we sell T-shirts and cuddly toys!

Special Reserve Club Shop at The Maltings, Sawbridgeworth, Herts. Open to 7pm Weekdays and to 5pm Saturdays.

NRG

Special Reserve

The Games Club

Special Reserve members can have all this.. can YOU?

- **READ "NRG" Regular Club Magazine**
- **CHOOSE from our Huge Selection**
- **BUY at Best Possible Prices**
- **SAVE with our Special Deals**
- **SAVE more with our XS Coupons**
- **WIN £60,000 worth of prizes FREE**

JOIN now from just £4.99

We only supply members but you can order as you join

There's no obligation to buy and you can be any age. Just send in the form below or phone Sales on **0279 600204**.

As a member of Special Reserve you'll receive regular issues of NRG magazine. NRG is our 48 page colour club magazine sent bi-monthly only to Special Reserve members. NRG contains:

1. The best selection of games, peripherals and hardware for all popular formats. We are official Sega, Nintendo and Sony stockists.
2. Reviews in colour and latest information on new products
3. Charts and Release Schedule, to help you choose and plan
4. The best prices. Just one purchase will save you your joining fee
5. Hundreds of Special Offers. Top games at prices you won't believe
6. XS Super Savers. Money-off coupons worth over £180 a year
7. **£60,000** worth of prizes per year in our **FREE-to-enter BIG TARGET COMPETITIONS**. That's £10,000 worth in every issue of NRG, exclusive to members.

That's why over 160,000 people have joined Special Reserve, the biggest games club in the World!

0279 600204

9am to 8pm Weekdays, 9am to 5pm Saturday, 10am to 5pm Sunday
10am to 5pm Bank Holidays. Order/Confirmation/Receipt sent for every order.

THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS.

You can also Fax your order to us on: 0279 726842

We pride ourselves on our after-sales service. (18 customer service lines) Inevitably some games listed may not yet be available. Please phone sales on 0279 600204 to check availability before ordering. In the event of delay we issue refunds on request at any time prior to despatch. We reserve the right to change prices without prior notification. E.& O.E.

Registered Office & Club Shop: Inter-Mediates Ltd, 2 South Block, The Maltings, Sawbridgeworth, Herts. CM21 9PG.

All prices include VAT and carriage to UK mainland. See base of order form for overseas surcharges. We supply hardware only to UK mainland addresses.

MEMBERSHIP FEES	6 MONTHS TRIAL MEMBERSHIP	ONE YEAR ANNUAL MEMBERSHIP	TWO YEARS WITH FREE HARD BINDER
UK MEMBERS	**4.99**	**7.99**	**14.99**
OVERSEAS EC MEMBERS	6.00	10.00	20.00
OVERSEAS WORLD MEMBERS	7.00	12.00	24.00

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN.
THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS.
(PLEASE PRINT IN BLOCK CAPITALS)

BENT

Name ____________________

Address ____________________

____

____________________ Postcode ____________

Phone ____________ Machine ____________

Enter membership number (if applicable) or
NEW MEMBERSHIP FEE (ANNUAL UK 7.99) ☐

item ____________________

item ____________________

item ____________________

item ____________________

ALL PRICES INCLUDE UK POSTAGE & VAT £

Cheque/P.O./Access/Mastercard/Switch/Visa (Switch Issue No________)

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Card expiry date__________ Signature____________________

Cheques payable to: **SPECIAL RESERVE**
P.O. BOX 847, HARLOW, CM21 9PH

Overseas Orders Surcharge (EC or World):* Software orders please add £2.00 per item. Non-software items please add 25%. Hardware items supplied to UK mainland only. *Overseas orders must be paid by credit card.

SOFTWA

38/40 QUEENS CHAMBERS, QUEENS
ORDER HOT
TECHNICAL SUPPO

PHONE FOR LATEST PRICES FOR HARD DRIV
THE BEST VALUE WE C
EXAMPLES OF OUR P

AMIGA A4000 SERIES

A4000/040

The flagship of the Commodore Amiga range. Features include an EC68040 CPU running at a blistering 25Mhz, 16.8 million colour pallete, fully expandable using Zorro III slots. A full range of hard drives are available.

A4000/040120M HD	£1919
A4000/040 170Mb HD	£1939
A4000/040 250Mb HD	£1979
A4000/040 330Mb HD	£2069

A4000/030

The standard workstation version of the 4000. Fitted with an EC68030 CPU running at the same speed as it's big brother and also featuring a 16.8 million colour pallete and similar upgrading options. A full range of hard drives are also available.

A4000/030 85Mb HD	£899
A4000/030 170Mb HD	£979
A4000/030 256Mb HD	£1039
A4000/030 330Mb HD	£1128

A4000 UPGRADES

CD ROM DRIVE INCLUSIVE OF SCSI CARD £399

MATHS CO-PRO EASY PLUG-IN

25Mhz PLC 68882	£79
40Mhz PLC 68882	£139

PC EMULATORS

386SX PC EMULATOR	£199
486SX PC EMULATOR	£299
SVGA GRAPHICS CARD	£49

ALL PC EMULATORS COME SUPPLIED WITH MANUALS AND MS DOS 5

MEMORY (SINGLE SIDED)

1Mb SIMMS	£59
4Mb SIMMS	£139

AMIGA A1200 SERIES

The Amiga A1200 represents the future of the Amiga series. It sports many features of the high-end 4000 series yet it maintains the Amiga value-for-money price tag. It's features include: 32 bit technology, 68020 CPU, AA chipset which allows 256 colours on screen from a pallete of 16.8 million colours, 2Mb of chip RAM. A full range of IDE hard drives are also available.

A1200 STAND ALONE PACKAGE	£349
A1200 40Mb HD	£448
A1200 85Mb HD	£528
A1200 127Mb HD	£544
A1200 170Mb HD	£588
A1200 250Mb HD	£638

All Amiga A1200s are supplied with HD PREP software and SOFTWARE DEMON'S own Return-To-Base guarantee. All hard drives are guaranteed for 3 years under a Return-To-Base

A1200+80Mb Hard Drive as supplied by Commodore with a 1 year on-site warranty £589

AMIGA A600 SERIES

THE WILD, THE WIERD AND THE WICKED. This is the ideal entry level package. It contains a varied selection of software that displays the best of the Amiga's abilities, which includes Deluxe Paint III, Microprose's Grand Prix and Putty.

A600 STAND ALONE PACKAGE	£189
A600 WILD, WIERD & WICKED	£215
A600 40Mb HD	£279
A600 80Mb HD	£369
A600 120Mb HD	£419

A600 & A1200 UPGRADES

2Mb PCMCIA RAM CARD	£109
4Mb PCMCIA RAM CARD	£169
1Mb PCMCIA STATIC RAM CARD	£109
2Mb PCMCIA STATIC RAM CARD	£169

VISA PLEASE MAKE ALL CHEQUES AND P

ALL PRICES SUBJECT TO CHANGE WIT

E DEMON

NS PENZANCE, TR18 4HB, CORNWALL
OTE (0736) 331039
POR ND FAX (0736) 331499

RIV PGRADES, AS IN THE EFFORT TO BRING YOU
E C, OUR PRICES CHANGE DAILY
UR P S 85Mb-£169 170Mb-£249

MONITORS

CBM 1084ST

An oldy but goldy. Commodore's best selling colour monitor featuring full stereo sound, all the leads you'll ever need and a funky tilt and swivel stand. The monitor for all seasons.

1084ST	£189

CBM 1960

The one and only multi-sync monitor for the Amiga. This is it folks, this little beauty will display ALL Amiga screen modes from humble Lo-Res all the way up to Productivity mode. All the leads needed and a tilt and swivel stand included.

1960	£329

DUAL-SYNC MONITORS

This all new singing and dancing range of monitors from Commodore are designed especially for the A1200 and A4000 range Amigas. Both monitors include leads and a stand. These monitors are also packin' a new improved stereo sound system, bassy or what.

1940 MONITOR 0.39mm DP	£279
1942 MONITOR 0.28mm DP	£379

PHILLIPS CM8833 MkII

This is a groovy little number. These guys make the tubes for all the Commodore monitors and produce a rather fine piece of kit themselves. This monitor carries the same specs as the CBM 1084ST. Sorry no leads or stand with this one, but you do get Microprose's F19 stealth fighter free.

8833MkII MONITOR	£189

KNOCK A TENNER OFF TOTAL PRICE IF BUYING ANY MONITOR WITH AN AMIGA

SCANNERS

You've seen the film now buy the toy! No seriously folks, if you're frustrated by a lack of decent clip-art for your DTP projects, snap up one of these beasties.

GREYSCALE HANDHELD SCANNER	£99
EPSON GT-6500 FLATBED COLOUR	£899
EPSON GT-8000 FLATBED COLOUR	£1149

ACCELERATORS

All our accelerators and maths co-processors are produced for the Amiga A1200 by GVP, a watch word in quality and reliability. All the boards are user fittable via the trapdoor of the Amiga. Any of the maths co-pros or memory modules can also be fitted in the field.

GVP FANG BOARD

The fang board incorporates an FPU maths co-processor an SCSI interface and memory module slots. So now you can buy one of the cheap SCSI hard drives, crank up your memory to 10Mb and ray trace at the speed of light.

BARE BOARD 0Mb/NO FPU	£179
BOARD C/W 4Mb/33MHz FPU	£369
SCSI CABLE KIT	£44

GVP JAWS BOARD

The JAWS board was designed with the serious speed freak in mind. Fitted as standard with an 68030 CPU (Careful, you might burn yourself.) it also has slots for a maths co-pro and memory modules

BASIC BOARD 0Mb/NO FPU	£269
BOARD C/W 4Mb/40MHz FPU	£459

GVP ACCESSORIES

33MHz 68882 PLCC	£69
40MHz 68882 PLCC	£119
32bit 1Mb MEMORY MODULE	£59
32bit 4Mb MEMORY MODULE	£153

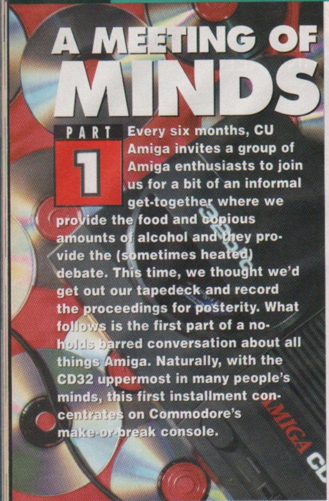
MODEMS

For all you Comm Freaks out there, we now stock a full range of modems. So if you fancy chatting to the world or hacking in to Lloyds bank take a butcher's at these.

PACE LINNET PLUS MODEM	£139
PACE LINNET 2400 MODEM	£179
PACE LINNET QUAD MODEM	£224
PACE LINNET V32 MODEM	£359
PACE MICROLIN POCKET MODEM	£269
PACE MICROLIN FAX/MODEM CARD	£224
PACE ULTRALINK 32 PLUS MODEM	£629
PACE ULTRALINK QUAD MODEM	£269

ND P AYABLE TO SOFTWARE DEMON Ltd. Access

GE WIT CE E&OE ALLTRADEMARKS ACKNOWLEDGED



A MEETING OF MINDS

PART 1

Every six months, CU Amiga invites a group of Amiga enthusiasts to join us for a bit of an informal get-together where we provide the food and copious amounts of alcohol and they provide the (sometimes heated) debate. This time, we thought we'd get out our tapedeck and record the proceedings for posterity. What follows is the first part of a no-holds barred conversation about all things Amiga. Naturally, with the CD32 uppermost in many people's minds, this first installment concentrates on Commodore's make-or-break console.

Mathew Broomfield: What chance do you think the CD32 has of being a success?
Jolyon Ralph: Well I think a lot's going to hinge on the marketing.
< *General murmurs of agreement* >
Stewart Sockett: And if C's previous track record is anything to go by...
Jolyon: I think they're gonna be in trouble.
Stoo: They are in trouble now.
David Ward: Have they got the money to promote it?
Jolyon: They're reportedly spending 7 million on marketing up till Christmas on 1200 and CD32.
John Kennedy: How does that compare with Sega?
Jolyon: I think that CTW said that figure would be about the money Nintendo or Sega would put behind the bar at a launch, which is pretty close.
< *General laughter* >
Jolyon: But it's not so much the money they spend, it's the quality of the advertising that they do. Commodore's has been particularly bad in the past. Their marketing and advertising people have not been particularly wonderful.
John: Is that biased or is that generally accepted?
Jolyon: You have my view on it, what does everyone else think?
< *Everyone agrees with Jolyon* >
Andy Leaning: I think it depends how they spend it. If it's used in the right way it's more than enough to get CD32 established.
Jolyon: The other thing they need to do – I know they're working on it – is to make sure the machine comes with a very good demo disk. There's no point having a box. I mean at the moment new machines are going out without any software at all. They need a decent demo so when it's in the shops next to Sega's MegaCD and other machines if Commodore's new baby has got the right demo disk it can out perform the others.
Mat: So have they actually commissioned this disk?
Jolyon: They are doing a demo disk.
Mat: Do you know who's putting it together?
Jolyon: Commodore are putting it together themselves. I've seen a pre-release version. It had things like CDXL movies on it but I don't know whether they've got the rights to use them on a commercial disk.
Wavey Davey (Dave Winder): How does it compare to the CDTV demo? I mean, I know the 32's gonna be better but how does it compare with that particular demo, which was excellent?

One of the main problems with CDTV was that Commodore failed to convince games developers to support the machine.

Jolyon: I haven't seen anything as good as that yet. In fact, I've seen machines going out with that demo to demonstrate the CD32.
John: Whenever they have Amigas in shops you rarely have any demos playing but you'll see a Sega Megadrive playing something, and a SNES playing something...
Stewart: If you see the Amiga doing anything it'll be displaying the Workbench insert disk prompt!
John: It looks bad.
Wavey Davey: The same with CDTV, all you ever got was the cube floating 'round and that's it.
David: But at least they made an effort to address that particular issue by making the sequence a little flashier, and thought they'd solved the problem!
< *Laughter* >
Jolyon: Well that's still no excuse. I mean on the CD32 it's easier 'cause you can just fit a CD. Anyone at Dixons will know how to put a CD into a CD player.
< *Laughter* >
Stoo: Except perhaps the, um, sales staff!
John: A few passers by could do it for them...
Jolyon: But yeah, it shouldn't be difficult. People are now used to games machines. Sega have people going around the shops making sure all the machines are set up and running and displaying properly. Now I know that Commodore have put money aside to make sure there are people permanently going around checking that

WHO'S WHO

We invited some of the Amiga's top name developers along for our conference, but they couldn't come, so we had to do with this unlikely shower of freeloaders. If you want to put a face to the name and find out exactly what they do for a living, read on..

these machines are running in Dixons, that they are not just sitting there with empty screens, and that they are running the demo disks or they are demonstrating software.

Wavey Davey: What happened to the team of pretty girls that they were sorting out?

Jolyon: That may be the same team – the ones who were going around demonstrating CDTV to everyone.

Wavey Davey: 'Cause that was a pretty good idea. They actually had a team of girls trained up to go 'round to places like Dixons and demonstrate the machine. Only trouble was, they didn't know anything about the machine at all so they were talking a load of bollocks.

Mat: Which was ideal for Dixons 'cause it matched the staff's level of knowledge [*Allegedly - Ed*].

Jools: I think the only way it [CD32] could really work is if developers give it some serious commitment, and in turn Commodore put some more money up. But at the moment I think everybody's taking such a tentative approach, including Commodore, it's not going to work.

Jolyon: One of the main problems with CDTV was that Commodore failed, initially deliberately, to convince games developers to develop titles for CDTV.

Eric Mathews: Commodore weren't even talking to them. Commodore Europe weren't talking to games developers!

Jolyon: They weren't?

Eric: They were talking to a few of the 'boys club' that exists within publishers, but they weren't talking to actual developers.

John: So the CDTV wasn't a games machine?

Eric: No. And the same thing applies to the 1200, CD32. I mean there are very few games developers who have been given the opportunity to get machines in advance.

Jolyon: Oh yeah, it's been a real fight to get any information, any machines out of Commodore. We got ours in the US.

Eric: That problem's now being addressed, but it still exists for other developers who are developing specifically for the Amiga, who've been successful on it.

Mat: This question of information release is an interesting one because I went over to a Commodore club in America that had thirty members on a good day, yet Commodore came up from West Chester with a 4000 to show this little tin-pot club the machine before it was even generally released, and that's the way they treat it over there. But over here...

Jolyon: You do get that sort of effort from Commodore [UK], but it's not a Commodore policy, it's individual people taking their own initiative. For example I've known Commodore staff who have brought machines along to small ICPUG groups because they wanted to, not because it was an official policy.

John: Is that a new thing?

Jolyon: No, that's been happening for quite a while. Commodore have popped down to a certain South East group of ICPUG to show them new product. They brought along new machines, they brought CDTV, apparently they're bringing CD32 with a full motion video module up in two weeks time to show that to a group of no more than twenty or thirty people. But it's not an official policy it's just...

Mat: The inspiration of a few non-senior members of Commodore?

Jolyon: That's it! Someone there who's got the authority to do it happens to live nearby and is willing to take the evening out.

Mat: It seems ridiculous that a small group who have some influence, but nowhere near as much as CU Amiga, Shopper or Format should be getting exclusive previews. We've even got a situation where we find out our news from the Jackie Brambles column. I mean who the hell is Jackie Brambles?

< *A number of rude remarks followed!* >

Hopefully we'll start to see games like Ultima Underworld and Wolfenstein [appearing on the CD32]. Plus 3D flight sims and the like.

Mat: So it does seem as if Commodore are a bit paranoid about giving out their information doesn't it?

Jolyon: Well Commodore were very worried with CD32, initially that the information would leak because they didn't know what the other competitors in the market, particularly Sega, and especially Nintendo, were up to on the CD front. Nintendo have kept themselves to themselves quite a lot. All it takes is a well-timed press announcement to spoil a lot of effort on the part of another company. Now, interestingly, that has just happened. Nintendo had a press release last week about the joint venture they've got with Silicon Graphics.

Mat: Is this their new 64-bit console?

Jolyon: New 64-bit *machine*. But the way that's worded is a direct spoiler by the looks of it, at 3DO. Now they haven't even mentioned CD on it, but I assume it will be a CD machine. I don't think any machine's gonna come out from now on that isn't... until the next technology advances come out to replace CD.

John: At the moment, and for the next year, is there any competition for the CD32, technically I mean?

Tony: The 3DO is competition.

Jolyon: It is competition but it's double the price.

Mat: Yeah, $700 is their target price so God knows what it's actually going to cost, so is that really any competition? I mean, the sort of people who can afford $700 are already there with FM Towns and the other CD technology that's been available for a while.

Wavey Davey: Doesn't it depend what 32's going to be marketed as?

Seb: Definitely.

Wavey Davey: I mean is it going to be marketed as a games machine?

John: Looks like it.

Jolyon: It is, it's a pure games machine.

Stewart: It's got no keyboard has it?

Andy: Commodore are trying very hard to suppress the fact that it can be upgraded.

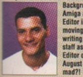
Wavey Davey: This is what I mean. The opportunity's there to upgrade the thing.

Mat: They're actually trying try to suppress it?

Andy: Well not suppress it, but basi-

MAT BROOMFIELD

Occupation: Technical Editor, CU Amiga



Background: Joined CU Amiga as Technical Editor in 1990, before moving into freelance writing. Rejoined CU staff as Technical Editor once again in August 93. Is this man mad?!

TONY HORGAN

Occupation: Assistant Technical Editor, CU Amiga

Background: Worked on Amiga User International from 1987 to 1991, turned freelance for a year, then joined CU Amiga in September of 92.

SEB LEE-DELISLE

Occupation: Programmer

Background: Currently developing CD32 software with Almathera. Used to play guitar (badly, by all accounts) with Deep Sea Dreamers.

JOLYON RALPH

Occupation: Developer

Background: Spearheading Almathera's CD-ROM developements, including CD PD collections, and the forcoming Video Creator for the CD32.

»

» cally they don't want that part of it pounced upon yet. They want to keep it quiet and let it take off as a games console first. Similar in a lot of ways to what they did with CDTV originally, but then they said it wasn't an Amiga, that it was a completely new concept, this time they're trying to say 'OK here's an Amiga but it's not a full Amiga just yet, that will come later on'.

Stewart: That could be why they delayed the launch of the CD add-on for the 1200 as well.

Jolyon: I don't think that was a delayed launch. I just don't think they've got it ready yet. They've abandoned, from what I hear, their attempts to get it working with the PCMCIA port so there won't be a CD ROM drive for the 600.

Mat: It's interesting that Commodore have abandoned their attempts yet only last week we saw a company who were able to get all manner of hard drives working through there. What is the significant difference between the two?

Jolyon: I think it's to do with performance on the 1200 plus the fact that the CD ROM add-on will now need new hardware to do chunky to planar conversion, which is the special chip that's in the CD32.

John: Is that chip a good thing?

Jolyon: Oh it's an extremely good thing. Definitely.

Is anybody actually writing anything for the CD32 that's any good? No offence intended, but the stuff that came out for the CDTV was a load of crap.

John: Will everyone use it?

Jolyon: A lot of people will use it. If it's a CD32 only title I don't see why not.

John: Is that to enable PC ports?

Stewart: If you code on the PC it's easier, isn't it?

Jolyon: Yes. You don't have to recode your graphics algorithms.

John: It was a move by Commodore to make PC conversions easier.

Jolyon: It's more to encourage companies who have left the Amiga to return to the fold. Hopefully we'll start to see things like *Ultima Underworld* and *Wolfenstein 3D* – those in particular are the sort of games that benefit. 3D flight sims, that sort of thing, although there are companies who invested a lot of money in Amiga routines to do 3D who may not want to rewrite all their code overnight for the new chip.

Mat: So what exactly does the new chip do?

Stewart: It's a kludge.

Jolyon: It is, it's a kludge. Basically the way that the Amiga and the PC store their graphics memory is totally different. On the Amiga it's stored as a series of bit-planes. The advantage of that is if you're doing games with parallax scrolling it's very simple to have backgrounds and foregrounds scrolling.

Mat: Because they're each a separate bitplane.

Jolyon: Which is why you very rarely see those kind of games on the PC because it's very difficult to do on a PC system. The advantage on the PC where each pixel is represented by one byte in video RAM, is that it's a lot faster for doing 3D graphics – things like 3D fills. Also a lot of other standard graphic effects are faster. Simple things like drawing lines.

Stewart: To set one pixel, you write one byte on a PC but on the Amiga you had to write eight.

John: Why wasn't this in the Amiga 1200 and the 4000?

Jolyon: They didn't have it then. Simple as that.

Mat: Why do you say it's a kludge?

Stewart: The DMA should be doing it. But you actually have to write eight long words to a register. So you've still got to go through the process of using the Amigas's video.

Jolyon: It doesn't give you a VGA screen mode it just gives you a fast convertor. At the moment people have been writing their own software conversion routines, and traditionally these have been very time intensive pieces of code that need a lot of calculation. This hardware just speeds up that calculation. The advantage as well is that though the operating system calls to do this, the hardware is emulated in software if you've got a machine that doesn't have this particular chip. So the same software should run (if it goes through the operating system) on a normal Amiga, although it'll be slower.

Commodore have gone to great lengths to distance CD32 from CDTV – it's a games machine and that's what they're going to market it as

John: How slow.

Jolyon: Um, well...

Stewart: Which kickstart is this on?

Jolyon: This should be on 3.0. It uses a particular function. In fact it may even be in 2.0, certainly it's in 3.0. It's been there for a while. It's not really documented. Well it was documented, but no-one knew what the point was; now we all understand what the point is.

John: So they knew they wanted to make one of these, it just wasn't ready?

Jolyon: Oh yeah. The whole idea was that this was something that the software guys at Commodore convinced the hardware guys was needed so that they could do the sort of games companies are writing for the PC. This was something that was essential if the Amiga was to keep a number of good games coming out.

Wavey Davey: It's all very well talking about these wonderful hardware advances, but is anybody actually writing anything for CD32 that's any good? No offence intended but the stuff that came out for CDTV was crap.

< Laughter >

Wavey Davey: Almost without exception, especially the games stuff.

Jools: We did *Megalomania* on the CDTV.

Wavey Davey: I mean games written FOR CDTV as opposed to just shovelling stuff over.

Jolyon: Most of the best games for CDTV were never released.

Stoo: Why's that?

Jolyon: Because Commodore did a total foul up on distribution. Originally, Commodore came to all the developers and said 'We've got this wonderful idea, wonderful new machine we're launching and we're gonna make it easy for all you developers and publishers out there. You can produce your titles on a relatively low budget, certainly compared to doing it for something like CD-i, and we will handle all of the marketing and distribution of your products so it's very simple for you to do.' So developers produced titles and Commodore said 'Right we'll take 2000 of that' and then they distributed it round the world. Then Commodore got rid of the guy who was doing this and Commodore totally stopped this way of handling it, so all of these companies who were developing titles expecting Commodore to handle distribution found that distribution had vanished, leaving them to find their

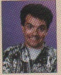
ERIC MATHEWS

Occupation: Game designer

Background: One of the three founder-memebers of the Bitmap Brothers, Eric's previous projects include the classic Xenon and Speedball games, and more recently The Chaos Engine.

STOO

Occupation: Graphic artist



Background: The man behind the gory graphics and twiching corpses of Sensible Software's forthcoming Cannon Fodder. An obviously sick mind lurks within.

JOOLS

Occupation: Programmer-designer

Background: Suffered some terrible childhood trauma (probably). How else could he concoct something as gut-churningly bloody as Cannon Fodder? Been in the industry for longer than he'd care to imagine.

BEN VOST

Occupation: Micropace PR/Technical Support

Background: Openly admits doing similar jobs at similar companies in the past - not so openly admits doing the subtitles for the "cult" Asian soap opera Mahabarat.

star MICRONICS

MAKING YOUR DOCUMENTS STAND OUT REQUIRES AN OUTSTANDING PRINTER.

Higher volume users who want quality, multi-copy printing go to Pro-to-Col from Star. A series of four versatile super-economical matrix printers with features previously only found on heavier-duty machines. Coping effortlessly with anything from a presentation document to a lengthy invoice run.

The Pro-to-Col Series is fully equipped to give your documents professional looking text and graphics – including colour when needed! Its wide selection of resident fonts, high resolution output, 9-pin & 24-pin models with a 48-pin emulation, ensures eye-catching quality.

(And all on standard office stationery: letterheaded paper, 15" broadsheet, multi-part invoices, and labels.)

Equally impressive is Pro-to-Col's ability to cope efficiently with either single sheets or continuous paper using the integral push feed tractor.

The advanced paper parking works even when the automatic sheet feeder is installed. There's also an optional Pull Tractor available to take advantage of bottom feed for lengthy unattended multi-part print runs or heavy weight label stock.

Then there are all the other value-for-money Star features customers have come to expect. High speed thru-put, built-in sound proofing, industry compatibility, and one year on-site warranty!* So if you're in business to impress, don't stand for anything less than the Pro-to-Col Series from Star.

Star Micronics U.K. Ltd., Star House, Peregrine Business Park, High Wycombe, Buckinghamshire HP13 7DL.
Tel: 0494 471111. Fax: 0494 473333.

*UK Mainland only.
A division of Star Micronics Co. Ltd., Japan.

I want the most outstanding printer available, so send me full details on the Star Professional range.

NAME:
COMPANY:
ADDRESS:

POSTCODE:
TEL: FAX:

HMSO HMSO preferred.
For information, ring 0603 695250

PROFESSIONAL PRINTERS

own distribution systems. CBM had managed to totally foul up things like getting disks into high street stores and the sales of CDTV were slow to begin with.

David: To begin with?

Jolyon: Well I'm talking about to begin with, I mean eventually it didn't pick up, but it could have done.

Jolyon: Anyway, sales were slow and publishers had to do their own distribution and many of them didn't bother.

Jools: I think the main point was that nobody would come up with the cash for development.

John: Why, how much does it cost to do a CD title?

Jools: Well you've got to pay the programmer, pay the artists and they want to make some profit.

Jolyon: Depends what you want to do with a title. If you just want to take your floppy disks and put it on CD then it's not that expensive, but those are the things that get slated in the reviews because it's just the same as a floppy disk.

Wavey Davey: How can CBM convince developers that the CD32's gonna be any more successful than CDTV?

There have been plenty of games on the Amiga that could have been as big as Sonic or even Mario if they'd had the marketing behind them.

David: By selling some!

Wavey Davey: If I was thinking about developing for CD32 I'd look at CDTV and say 'No thanks, what's the point?'.

John: Wouldn't you look at the Nintendo market to see how successful you could be?

Wavey Davey: Yeah I'd look at the Nintendo and Sega markets and say 'Yeah I'll go for that mate!'.

Stoo: It's extremely difficult to get into those markets unless you know what you're doing

Jolyon: Commodore have gone to great lengths to distance CD32 from CDTV2. It's not like CDTV, it's not a video shaped box, it's a games machine and they're selling it at a far more realistic price than when CDTV first came out.

Stoo: You think so? £299 – the same price as the A1200?

Jolyon: I think it's a very realistic price for what it is. Judging by Commodore's pricing policy it's gonna be £199 by this time next year at the most.

Wavey Davey: Yeah but why should a kid want to buy that instead of a Sega Megadrive with a CD?

For the first time you have a machine that can do everything and that is very, very important to most people.

David: Especially when half his friends have got them.

Jolyon: Well it costs less than a Megadrive with a CD add-on.

Wavey Davey: But all the games are already there.

Jolyon: Have you seen the MegaCD games?

Andy: MegaCD games aren't all that brilliant.

Wavey Davey: Agreed but at least there are some!

Jolyon: At the end of the day it'll be in the shop with the MegaCD and CD32 next to each other and there's software running on both and the kids will look at it and say 'That's rubbish, that's good.'.

Stoo: Do you really think so?

Jolyon: That's what it's going to be down to.

< Murmurs of disagreement >

David: The kids will look at it and say 'Sonic 4, I want that.'

Andy: You're missing the whole point of Sonic. Sonic and, for what it's worth, Mario, are so much in demand that people will buy whatever has got those two on it. Merchandising works on that basis. You can sell popcorn because it's got Sonic written on it. CD32 needs a title like that.

David: Anyone got any idea what software pricing is going to be on CD32?

Jolyon: It's going to be more than floppy disk software to start with.

Jools: Is it going to be cheaper than projected cartridge prices?

Wavey Davey: Oh yeah.

Andy: It's not going be £59 to start with.

Mat: Although he admitted he had no right to insist, didn't David [Pleasance] say that he was hoping to keep it between £29 and £49?

Jolyon: Well I was originally told £19 to £29 by Dave Pleasance. He'd very much like them to be that price because his market's selling hardware not software.

Mat: But then Commodore themselves have forced the minimum price up by charging an amount on each CD that's sold.

Jolyon: At the end of the day the company's got to recover its costs and make a profit.

Mat: But I'm told that this $3 charge works through as a £10 price increase by the time the CD reaches the shops.

Jolyon: Yeah, a $3 price increase will be about ten pounds when it hit sthe shops.

John: Will there be a 'killer' game?Is there a Mario or a Sonic on the way?

DAVE WINDER

Occupation: CIX moderator

Background: Moderating more conferences on CIX than just about anyone else, Wavey Davey is a bit of a rocker at heart.

ANDY LEANING

Occupation: Silica Systems PR Manager

Background: Been with Silica for the last seven years. Knows the Amiga market inside out, back to front and upside down... you get the idea!

DAVID WARD

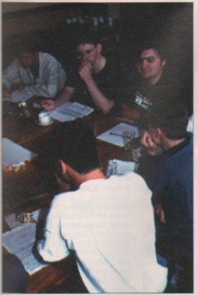
Occupation: Freelance journalist

Background: A regular on the Amiga enthusiast scene for some time, David has written for CU Amiga and JAM in his time.

STEWART SOCKETT

Occupation: Programmer

Background: One of the main men behind Psygnosis' stunning Microcosm, the fruits of which will soon be seen on the CD32. It looks stunning.



Jools: I'd really like to see a good playable game, really addictive, but tied in with an excellent album for thirty quid. That way everyone gets their cut. The music industry gets back into it.

Jolyon: There are plenty of games that have been on the Amiga that could have been as big as Sonic or as big as Mario if they'd had the marketing behind them. *Lemmings* comes to mind immediately. They put a lot into that, but if they'd really pushed...

If you look at youth culture now, computer games have taken over from the record market almost completely. Kids want computers, not music.

Mat: Didn't that become an icon in its own right? It transferred onto every format going.

Stewart: Yeah it did, but it wasn't Amiga specific.

Stoo: If there was a game that was just Amiga, who knows? You need an image that you can identify with the console or the machine.

Tony: So why aren't CBM commissioning someone to do 'Sonic'? You don't need 7 million to write Sonic. They're going to put the machine out and it's going to have *Diggers*, *Oscar* and maybe a demo disk, possibly something with some of Bullfrog's 3D stuff if you're lucky, but it's basically gonna have nothing there but they're gonna put it in the shops and hope it's going to sell. If they just put some time into developing something that really shows it off then it *would* sell.

Jools: That was what happened with Sonic. They started with a red box in their offices and everybody had to put in their ideas.

Jolyon: For Nintendo and Sega, both Mario and Sonic were developed effectively in-house so they were in-house funded. That's the reason those products were not developed for other systems, because they're tied in directly with the manufacturer. It would be very difficult for Commodore to convince a company who has a sure-fire winner to only do it on their system.

Tony: So they're going to have to initiate one of their own.

Andy: Sega makes a lot of their money from software. Although they sell the hardware, they do it so that they can take most of their margin from software. Commodore don't work on that basis.

Jolyon: But they're going to. Once the sales of CD32 take off they intend to make a lot of their revenue from the $3 licencing on the titles rather than from the hardware sales. A bit like Nintendo do with cartridges really. Then the price of the hardware will come down.

Andy: Yes, but that doesn't instigate in-house software development, that's making money from a market you've got.

Jolyon: But that's their only interest. Commodore keep stating that they're a hardware company not a software company. They're not interested in developing software.

Stoo: The thing is if they don't develop software the machine's going to fail.

< General agreement around the table >

Stoo: They've got this new machine and it may have brilliant hardware but if nobody's going to touch it... There's no point just showing people a flashy demo – where are the games?

Andy: We're all saying 'How's the CD32 stack up against Sega and Nintendo' but there's no way Commodore need to sell the same sort of quantities as Sega or Nintendo. The point is, what do Commodore NEED to sell, and what figure are they happy with? I mean, the 1200 for most people is a success. It's nothing in terms of the Sega market but Commodore are quite happy with it, or at least that's the public perception that they give. They don't need to sell as much as Sega and Nintendo.

Both Mario and Sonic were developed in-house. It would be very difficult for Commodore to convince an outside company to develop a character exclusively for the CD32.

John: Since the CD32 is theoretically technically much superior to both Nintendo and Sega, will that not encourage developers to produce the next generation of things that are exceptionally good?

Andy: It would have done in the past, but I'm not sure it will nowadays because at the end of the day like everybody, they're in it for the money and unless CBM can convince them that the machine's worth developing for...

Jolyon: The problem with software development is that it's getting more and more expensive.

Andy: It's more commercial.

Jolyon: The more expensive it gets, the more the smaller systems are squeezed out of it. It's exactly the same as happened in the early 80's when first of all you had the proliferation of machines; and then things like the Dragon and the Oric were just pushed out simply because it was too expensive to develop games for them and port them. The same thing's happening now. Smaller machines are in trouble, and the Amiga's inevitably going to be a smaller machine than PCs or the consoles, and it will be the first to suffer.

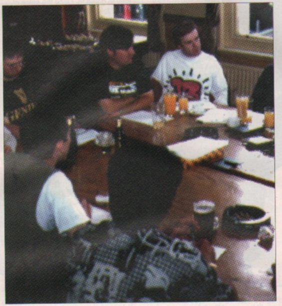
John: Won't the new planar chip mean that the CD32's going to be a cheaper alternative to a multimedia PC?

Jolyon: Yes. Definitely. And the thing about a PC with CD ROM is that you need a very fast PC to get any sensible results out of it. If you've seen things like *7th Guest* running on CD on a PC, the actual graphics performance on it is abysmal. The same thing could be done faster and better on a CD32

JOHN KENNEDY

Occupation: Freelance journalist

Background: A specialist technical Amiga writer for many years, John has sold his soul to various publications in the past, before realising the joys of writing for CU AMIGA.



» with ease.
Stoo: Then Virgin *must* do it.
Jolyon: They're porting it at the moment to CD-i and the CD-i version runs a lot faster than the PC version even though it's only a 68000 in a CD-i.
Stewart: CD-i's using full motion video isn't it? The new demos you see now have MPEG on board.
Jolyon: Yes, the new machine that's coming out has MPEG on board, but I think that *7th Guest* is not actually using full motion video.
Stewart: Really?
John: The CD32's theoretically got FMV.
Stewart: But you pay about two hundred quid more.
Jolyon: Well it's £200 now; it could be £20 next year.
Wavey Davey: It should be bundled in the price shouldn't it.
Jolyon: It will be. I think that by Christmas next year it'll be £199 with full motion video if it's still around.
Wavey Davey: That's the problem, and it was the same with CDTV. It's a case of 'This is a wonderful machine. Next year it'll be even better because you can get this next year, and the year after you can get this.'
Stoo: Who said CDTV was a wonderful machine?
Wavey Davey: Commodore did!
John: FMV is a standard that's independant of the CD32 because it uses the MPEG method – will it run on anything?
Jolyon: As long as they're white book disks.
Mat: White book disks?
Seb: They're the industry standard for full motion video. Defined by Paramount, Phillips, Commodore and a load of others. It just means that disks are machine independant.
John: The people who make video cassettes are going to love it because it's a heck of a lot cheaper to press a CD.
John: CD32 could replace the video recorder when you go and rent a film, and it'll also be the cheapest machine to do it.
Wavey Davey: But you have to change the CDs halfway through the film though.
John: But you change music cassettes to hear the other side, don't you?
Jolyon: I don't think the CD movie is going to be an outstanding success because the technology's not right for it yet.
Andy: You're missing a fundamental point that for the first time you have a machine which can do everything and that is very, very important to most people. If you can say 'I have all my films, all my music cassettes, all my computer games on a single format CD which you can easily stack,' then that's a tremendous sales message At home on your bookshelf you've got videos, you've got CDs, you've got cartridges and disks – terrible, there's no cohesion there at all. If all the shops could now sell everything off a single CD rack...

If you've seen things like *7th Guest* running on CD on a PC, the actual graphics performance is abysmal. The same game could be done faster and better on the CD32.

Jools: Surely VHS is already to established in the market?
Andy: Yes, but VHS doesn't address the sound market and it doesn't address the computer game market. We've now got a single compact disc and it's in a standard sized box and it'll do everything.
Jools: I don't think it'll ever replace VHS.
Mat: Why not? We thought vinyl and Betamax would be around for a long while, but they eventually got replaced by CD and VHS.
John: Can you see the CD32 being one of the first machines to be widely used like this?
Jolyon: Could be.
Wavey Davey: If you look at the youth culture now, computer games have taken over from the record market almost completely. Kids want computer games, they don't want music. So it makes sense to get music onto that format.
Jolyon: This is where the potential for financing the actual projects will come from. From the music industry trying to get back into their market again.

I don't think the CD movie is going to be an outstanding success because the technology is not right for it yet.

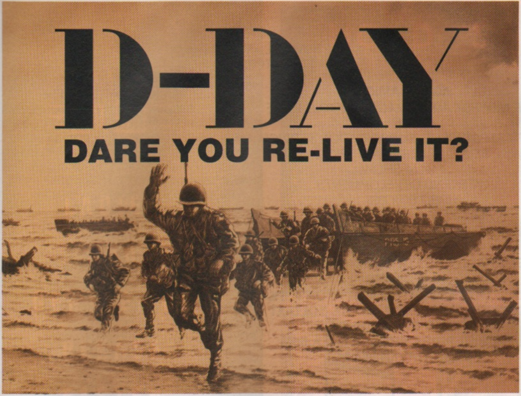
Tony: The only thing like that so far is the Global Chaos CD which was less than stunning.
John: Do you think that when you buy a CD in a few years time, that you'll expect there to be a video to go with it?
Jolyon: Yes. The great thing about video CD and even CD32 is that you can make a disk which is both a CD32 disk and a video CD disk, yet when you put it into a household audio player it completely ignores those tracks and just plays as if it was a normal audio disk without there being a track with noise on it or anything like that.
Mat: What is the video capacity of a standard disk?
Jolyon: A standard disk would be 72 minutes although with various production companies you could get that up to 80 minutes.
Mat: Of video?
Jolyon: Of video on a CD. The same as audio, exactly the same as audio.
John: What quality is that?
Jolyon: Well this is MPEG 1 quality which is not bad.
Stewart: It's a bit blocky.
Jolyon: It depends on...
Stewart: The size of the squares!
Jolyon: It also depends on the circuitry they put in to smooth out the video once it's gone through the convertor.
John: Is that in the player?
Jolyon: That'll be in the actual player hardware.
Wavey Davey: I've seen two demos: a James Bond film on CD-i which was superb: VHS quality as they say, and a Nimbus, they're add-on boxes for CD players, and that was terribly blocky. The actors were talking but their mouths weren't in sync.
Jolyon: It depends on several things: it depends on the quality of the conversion to start with; the original encoding. If that was done badly then you get a bad output. It also depends on the actual unit it's being displayed on. MPEG looks a lot more blocky on a monitor than it does if its put through a TV simply because a TV blurs everything anyway.
Wavey Davey: This Nimbus one was done on a projection screen so everything was blown up to ten times normal size.
Jolyon: Put it on an old 14 inch telly to see MPEG properly!
John: Do you see monitors being binned and everyone going back to their old TVs instead?
Jolyon: MPEG has got advantages over VHS, it's also got disadvantages. I reckon they're about the same quality–wise subjectively. I think it's very good for what it is. MPEG1 is being rejected by all the cable and satellite TV companies as not being high enough quality for broadcast. They're going on to MPEG 2 for satellite and cable transmissions, but I don't think that's been finalised yet. I don't think anyone at the low end of the market is going to complain about MPEG 1 for CD. The only way to improve on MPEG 1 is to use a better form of MPEG and that would have to rely on the double speed disk so you'd only get 36 minutes on a CD which may be alright for some things but...
Mat: Double speed disk?
Jolyon: CD32 has a double speed CD drive. MPEG will play back from the drive running at normal/single speed; that's what it was designed for.
Jools: Surely when you're talking about one standard which hopes to be the standard for the future, TV's got to change. Double the scan lines or whatever?
Jolyon: As soon as that happens there'll be much more data on a screen and it'll be impossible to play back on a standard CD and unlikely that even the quad density CDs they're talking about now would be enough. The problem is, different areas of technology advance faster than others and things which are brand new ideas then become obsolete because of it.

NEXT MONTH

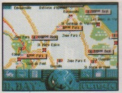
And that's were we'll have to leave the proceedings. Next month things begin to hot up as our team of experts turn their attention to games software, piracy, the shape of Amiga software to come, HD-installable programs, and many other unmentionable (and highly contentious) issues. Be there!

D-DAY

DARE YOU RE-LIVE IT?



5th June, 1944. Evening... The storm clouds of war are gathering over the Channel. Just after midnight Operation Overlord will commence, unleashing the allied forces against the might of the German Army on the beaches of Normandy...

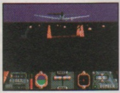


PC

Hone your skills beforehand with up to 28 training missions. Now, as the legendary General Dwight D. Eisenhower, you're ready to lead the offensive...

Liberate the strategically crucial village of St. Mere Eglise.

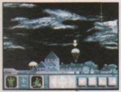
In the hush of the war-room, pore over the war map, plan tactics and issue your commands.



PC

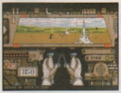
Then it's into the fury of battle as you take to the tracer-lit skies at the controls of a B17 Bomber, softening up your target with a daring pinpoint bombing raid...

With explosions still ringing in your ears, drop the 82nd Airborne into safe locations - remember, their lives hang on your skill...



ATARI ST

Now come the big guns. In the sweltering heat of a tank you rumble towards the front line...squinting from the gunner's turret you blast away an enemy Panzer and thunder on...

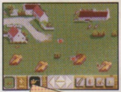


AMIGA

Finally, with bayonets fixed, wave in your infantry to take back the village in treacherous hand - to - hand combat.

Adjust difficulty levels to match your ability... introduce the fog of war to make those strategic decisions ultimately realistic... do whatever you need to for victory.

ASK YOUR RETAILER FOR D-DAY NOW!



PC

D-DAY
DARE YOU RE-LIVE IT?
FUTURA

***Available on:* PC & Compatibles, CBM Amiga & Atari ST.**

FUTURA

Screen shots are intended to be illustrative of the gameplay and not the screen graphics which may vary considerably between formats in quality and appearance and are subject to the computer's specifications.
PC Graphic Support: EGA/VGA/MCGA PROCESSOR: 386sx or better. Minimum Memory Required: 548k RAM. Sonic Support : AdLib™ and Roland™ Sound Cards. CBM Amiga/Atari ST Minimum Memory Required 1Mb.
D-DAY, FUTURA and LORICIEL are trademarks. All rights reserved. ©1992 LORICIEL. Marketed and distributed by U.S. Gold Ltd., Units 2/3, Holford Way, Holford, Birmingham. B6 7AX. Tel: 021 625 3366.

U.S.GOLD

THE SPOTLIGHT AMIGA SHOW

THE NOVOTEL, HAMMERSMITH
17th OCTOBER 1993

ACCES AMIGA

THE NEWEST AMIGA MAGAZINE TO HIT THE UK
OUR LATEST ISSUE. SUBSCRIPTION SERVICE WILL BE AVAILABLEAT THE SPOTLIGHT AMIGA SHOW.

WEEKEND DEVELOPMENTS
PO BOX 208
FOLKSTONE. KENT CT19 SEZ

"AMIGA WAREHOUSE

WILL BE OFFERING THEIR USUAL MIX OF HARDWARE AND PRODUCTIVITY SOFTWARE COMBINED WITH THEIR EXTENSIVE EXPERTISE IN ALL THINGS AMIGA. ITEMS TO LOOK OUT FOR WILL BE THE PICASSO 11GRAPHICS ACCELERATOR, CLARISSA,IDEK MONITORS, AND MANY OTHERS. THERE WILL ALSO BE A DEMONSTRATION OF NEWTEK"S VIDEO TOASTER 4000!"

EMERALD CREATIVE TECHNOLOGY

BRING THIS ADVERTISEMENT FOR A 5% DISCOUNT ON ALL SOFTWARE SOLD AT OUR STAND!!!!!

BARS AND PIPES PRO 2, SCALA 500!
FINAL COPY! REAL 3D!

NOT ONLY WILL WE HAVE THE LATEST VERSIONS OF SOME OF THE BEST PRODUCTS AVAILABLE, BUT ALSO THE NEW BRILLIANCE 32 BIT PAINT PACKAGE, MORPH PLUS, AND ART DEPARTMENT PRO AND THEN THERE IS THE VIRTUAL REALITY LABS GIVEAWAY......ALL THESE AND PLENTY OF OTHER ENTERTAINMENT AND LEISURE GIVEAWAYS GURANTEED TO MAKE YOUR DAY WORTHWHILE. EMERALD CREATIVE TECHNOLOGY!! TEL 081 715 8866.

·SEE GASTINERS NEW RANGE OF PRODUCTS

" THE GOLD AWARD SCANNER AND HARD DRIV
E FOR AMIGA A500.
PLUS LOOK OUT FOR THE 550 FREE TICKETS.
GASTINER TECHNOLOGIES UNIT 12A MILLMEAD
BUSINESS CENTRE, MILLMEAN ROAD. LONDON.
N17 9QU
081 885 2953.

1 6 - 3 2

COME AND VISIT 1632 AT THE SPOTLIGHT AMIGA SHOW. SEE OUR NEW RANGE OF AMIGA PRODUCTS AND TALK TO OUR EXPERTS

173 HIGH STREET STROOD. KENT. ME24TW

GOLDEN IMAGE UK LIMITED

SPOTLIGHT AMIGA
HAMMERSMITH, LONDON
17TH OCTOBER 1993
IS THE ONLY PLACE TO BE.

UNIT 12A MILLMEAD BUSINESS CENTRE.
MILLMEAD ROAD LONDON N17 9QU
TEL 081 365 1102
FACSIMILE 081 801 8356

HI SOFT

WHY NOT COME AND SEE OUR AMAZING RANGE OF AMIGA PRODUCTS,WHERE OUR EXPERTS WILLBE ON HAND TO GIVE YOU EXPERT GUIDANCE.!

LADIES AND GENTLEMEN PLEASE FASTEN YOUR SEATBELTS, WE ARE ABOUT TO TAKE OFF

NODDY'S™ BIG ADVENTURE

Noddy's Big Adventure is the sequel to the highly successful Noddy's Playtime. It takes children to the North West corner of Toyland and includes 13 different programs to educate and entertain children for hours on end.

This graded creativity and entertainment package is specifically designed for 3-7 year olds and relates to the early requirements of the National Curriculum.

Drive with Noddy in his car, pick up passengers along the way and visit many exciting locations.

- Kitchen Fun - sequencing, colour and shape matching and vocabulary
- Noddy's Scales - number matching through to addition
- Tricky Trees - memory, sequencing and the language of colour and shape
- Can you Find me? - shape and colour recognition
- Bert's Scrapbook - sequencing and reading skills
- Beach Sorter - sorting
- Picnic Attack - water fun game

Junior Word Processor - this excellent utility develops story telling skills. Its scope is outstanding and features many facilities found in 'grown up' word processors. There is also a word game in each level to create an element of fun.

Available for: Amiga, Acorn Archimedes, PC and PC Windows.

NEW
NODDY'S PLAYTIME
NODDY'S BIG ADVENTURE
3-7 YEARS

NODDY'S™ PLAYTIME

Noddy's Playtime added a new perspective to educational games, the outstanding value from this extensive package has set new standards of parental expectation in this important area of software based on learning with fun.

Drive around Toy Town, explore exciting locations and learning programs and a full Junior Art Package packed full of creative fun. Designed for 3-7 year olds.

Available for: Amiga, Acorn Archimedes, PC and ST.

PLAYTIME & BIG ADVENTURE TWICE THE LEARNING EXPERIENCE

THE JUMPING BEAN CO.

Leen Gate Lenton Nottingham NG7 2LX
Tel: 0602 792838 Fax: 0602 780963

Available from: Boots, Currys, Dixons, Escom, Future Zone, Game Ltd, John Lewis, John Menzies, PC World, Rymans, Tandy, The Computer Store, Virgin and many specialist outlets.

Original Text and Images © Darrell Waters Ltd 1949/68. Text and Images of BBC Television Series © BBC Enterprises Ltd 1992. Licensed by BBC Enterprises Ltd. NODDY is a trademark of Darrell Waters Ltd and is used under Licence. ENID BLYTON (signature logotype) is a trademark of Darrell Waters Ltd and is used under licence.

A different Perspective

In the future we could all be watching films featuring actors and scenes which have never existed outside a back of computer memory. Already it's possible for an Amiga to create images so realistic that it is impossible to tell them apart from real photographs. John Kennedy looks at the current state of the digital art, how it all works, how it can work for you and what is yet to come.

There is something incredibly addictive about 3D modelling – something which stems back to childhood and playing with Plasticine and Lego. The ability to create out of thin air an object exactly as you want it, and then place it in an entirely imaginary world is one which has mesmerised artists of all ages since time began. Before the advent of computers, budding artists needed to be naturally talented at drawing and had to spend years learning method and technique in order to be able to create a good likeness.

JARGON BUSTERS

- **BUMPMAP:** A flat image, perhaps produced with a paint program like *Deluxe Paint*, which controls the 'bumpiness' of a rendering object. Useful for adding realistic textures to objects.
- **CSG:** Constructive Solid Geometry which uses primitives such as sphere and cubes to model objects.
- **DITHER:** The technique of giving the impression of many different colours by using many different patterns of a lesser number of colours.
- **FACET:** A triangular shape used to model an object. A complicated object could consist of thousands of facets, each with slightly different colours or textures.
- **RENDERING:** The process of generating an image from a model of an object.
- **24BIT:** True-colour of more than 16 million shades requires that 24bits of memory storage is used for each pixel.
- **PHOTOREALISTIC:** If an image looks so real that you're not sure if it's a photograph or not, then it's photorealistic.
- **FORTH:** A quirky stack-based language, that's fast, relatively easy to implement and was almost brought to public awareness via the Jupiter Ace micro.

It still takes talent to create a really good 3D image on your computer screen, but the task of rendering the image realistically has been completely taken over by the computer. Now we have the freedom to experiment with colour, form, lighting and composition without having to worry about painting an incredibly complicated object and background each time an alteration is made.

Some would say it's a lazy way to becoming an artist, some would say it's not art at all. Only you can decide as you look at the pictures used to illustrate this feature. Are the images, which do not or could not exist in the real world, merely digital abstractions? Or would you not agree that the computer has become a tool, albeit one several orders of magnitude more complex than a paintbrush, to explore the imaginations and display thoughts in a form we all can share?

MODELLING

There are many rendering programs available for the Amiga, but they all work in the same way: first, objects are created, then lights are added, camera angles adjusted and finally the scene is rendered to form a visible image. However, even though the method might be the same, the differences between various packages are great.

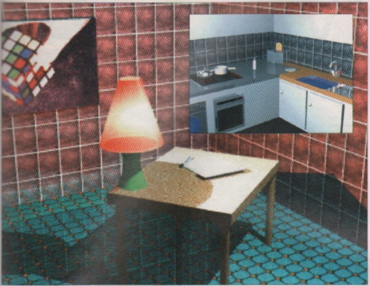
Just as some artists prefer to work in oils and others in stone, each individual will have his or her favourite program. Those lucky enough can even use several programs, using the modelling strengths in one program, and the advanced animation facilities in another.

Modelling, or creating the objects used in the images, is an art form in itself. The ability to look at an object, and take it to pieces in the mind's eye to form simpler constituent parts is a skill that only increases with practice.

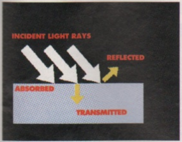
Many programs, *Imagine* for example, use a facet-based system whereby each object is composed of nothing other than triangles, all of different sizes and meeting at different angles. The more facets used to describe an object, the greater the detail. Unfortunately more triangles also mean more time and more memory required to render the finished image.

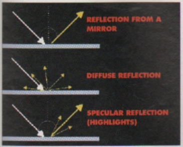
Another problem with the facet-based approach is that facets always meet at straight edges, which poses the question how can an object such as a sphere be created? The simple answer is that all rendering software use smoothing techniques to 'round off' the corners and so create natural looking spheres. The smoothing feature must be optional for each object, otherwise objects such as cubes would also start to become spherical.

Other modelling programs, *Real 3D* is one, use an approach based on primitives (the most simple mathematical shapes possible). Using the primitive approach, a table would be constructed from a cube (stretched out and flattened), resting on four cylinders. A ball would be a proper sphere as there is no need to ask the software to round off edges. This method is very easy to use and is ideal for



Inset: This picture used a backdrop created with *Real 3D v1.4*, with the foreground objects rendered in *Real 3D v2*. The cans are simple cylinders with the label wrapped around them, the tiles made from blue cubes. Notice the motion blur of the falling can, and the depth of field effect which makes the cans sharp but the foreground and background out of focus.





Top: When a ray of light is incident on an object, it has three choices: it can either be reflected, transmitted or absorbed. Mat objects will absorb most light, shiny objects will reflect light and transparent objects will transmit light. In reality, most objects will exhibit all three properties.
Bottom: The way an object reflects light plays an important role in its appearance. A mirror will reflect the light completely, whereas a more rough object will scatter light evenly. An object which is shiny will reflect a specular highlight, the size of which gives the impression of 'hardness' or 'smoothness'.

creating both simple and complicated objects very quickly. Unfortunately, creating complicated objects with hollows and cross-sections is difficult using primitives and can only be surpassed by allowing 'boolean operations' to be performed. Thus to make an empty box with an open lid, you need two cubes; one fractionally smaller than the other. The smaller box is placed inside the larger, and then it is magically subtracted from the larger one with a logic statement. *Real3D* suffers from this slight complication, although version 2 makes the process simpler than I've described it.

REALISM

Realism is the name of the game and a picture filled with mat grey objects isn't going to win any prizes outside Conservative Party headquarters. Real objects have physical properties which alter the way they appear. An object which is shiny reflects more light than one which is rough. A sphere coloured red reflects only the red light incident upon it. Some objects, such as a sheet of glass or a tank of water, let light pass through them. Mirrored objects reflect all the light that falls on them, and clouds of gas... well, it can all get rather complicated. Each of these attributes (reflectivity, transparency, colour and so on) must be specified for each material used in the scene.

For example, you may make a material called 'glass' which is sort of bluey-green in colour, slightly reflective with a medium refractive index but most of all, highly transparent. Once defined, this material can be applied to any of the objects in your scene which are then 'made of glass'. Look closely at the objects around you, paying particular attention to how the light appears on the surface. Is there a sharp image reflected off a nearby window or strip-light? Is there a reflection on the object of the items around it? If it is transparent, how is the light which shines through it affected?

Even a brief acquaintance with the laws of physics behind the optics will enable you to make more realistic objects, so search out that old school physics book. You must remember that complicated materials need time to render. Most programs offer image rendering to different degrees of accuracy and you will probably need to select the most detailed (and therefore slowest) to see the effects of glass or reflective materials. »

PIXEL PRO

Pixel Pro allows objects to be swapped between virtually all image rendering programs.

A very useful program if you deal with multiple object formats is *Pixel Pro* from Axiom software. *Pixel Pro* can load, save and edit objects created by just about every 3D modelling program ever written. All except, that is, *Real 3D*. For some reason the Yanks don't like *Real 3D* and tend to leave it out of conversations. It's probably just jealously that a program from Europe can produce better results than an American one. Luckily, RealSoft provide a Sculpt->Real object conversions utility, so all is not lost. As well as acting as a universal translator, *Pixel Pro* can create 3D images from 2D bitmaps, extrude objects and optimise them for saving. Some data which you might like to feed *Pixel Pro* comes from a company called ViewPoint. These guys spend all day converting real objects into digital format for rendering programs, and they have produce data that has been used in many television programmes and movies including the Robin Williams' film Toys.

ViewPoint's 3D clip-art is of exceptional quality and well worth investigating. Whenever images are created, the *Art Department Professional* should be nearby. In this situation, the JPEG savers and loaders are very useful to save disk space, and of course the special image processing effects and morphing animation support could come in useful too. Alternatively, programs such as *ImageMaster* and *Image FX* do similar jobs and should be staples of the image renderer's toolkit.

HEAVY METAL

You could bicycle from Land's End to John O'Groats if you really wanted to. People have done it, and lived to tell the tale. Likewise, you could render photorealistic dinosaurs for your own version of Jurassic Park II on a bog-standard Amiga 600. But would you want to? More to the point, would you live long enough? Without wishing to discourage anyone, to create images like those in these pages you need something better than an unexpanded A600. Some of the pictures here took more than 12 hours on an Amiga fitted with a 68040 processor to create – that means on a 68030 they would have taken more than 36 hours, on a 68020 more than 96 hours and on a 68000 (an A600) over a week. Of course, these images are complicated – and very high resolution – and there is no reason to think that's where you have to start. A very satisfactory lo-res 256 colour image can be produced with *Real 3Dv1.4* very quickly indeed on an A1200. The really horrible thing is that you never have an Amiga that's fast enough, no matter how much you spend on it. You find that as soon as your computer is faster you start creating images with more detail, and you're back to where you started. Floating point co-processors (or FPUs), such as the 68881 or 68882, can make a large difference to rendering times, so make sure you get one should you be expanding your system. For heavy work, an FPU should be considered an essential requirement.

After speed, most Amigas will need more memory. This is especially true if you want to render 24bit images which use a lot of textures and maps. Like processing power, it's impossible to have too much memory, but try to aim for about 4Mb of Fast RAM. With this amount, you can create some astounding images and also have enough to play back a good sized animation. If possible, try to use super-fast 32bit RAM before PCMCIA slot memory as the speed difference will be considerable. A1200 owners might like to consider getting one of the trapdoor cards which feature a 68030 as well as memory.

Hot news from the States would lead us to believe that the makers of the Video Toaster really hate us PAL users. If refusing to build a Toaster we can use wasn't bad enough, they have designed an add-on board which used custom Risc micro-processors to speed up *Lightwave*, the Toaster 3D rendering program!!

AMIGA WAREHOUSE

MAIL ORDER

Order Line:
(+44) 0753 554338

MICROBOTICS

Microbotics premier 68030 accelerator for the A1200 with realtime clock, space for FPU and up to 128MB of RAM!

M1230XA 40/0 40MHz EC030, 0MB RAM	£299.99
M1230XA 40/4 40MHz EC030, 4MB RAM	£399.99
M1230XA 50/0 50MHz 68030, 0MB RAM	£399.99
M1230XA 50/4 50MHz 68030, 4MB RAM	£499.99

Microbotics were the first company to bring out their RAM expansion for the A1200, and now it's even better, with realtime clock and a choice of maths co-processor.

MBX1200z 14MHz 68881, 1MB RAM	£139.99
MBX1200z 14MHz 68881, 4MB RAM	£279.99
MBX1200z 14MHz 68881, 8MB RAM	£379.99
MBX1200z 25MHz 68882, 1MB RAM	£199.99
MBX1200z 25MHz 68882, 4MB RAM	£339.99
MBX1200z 33MHz 68882, 8MB RAM	£449.99

FUJITSU

Fujitsu are well-known for their quiet, fast and robust range of wider-than-normal dot-matrix printers. Both printers come with Amiga drivers, printer cable, Personal Write and Personal Fonts Maker.

Fujitsu DL1150 24-pin A4/A3 colour printer	£269.95
Fujitsu DL1200 24-pin A3/A2 colour printer	£259.95

Also available, Fujitsu's bubblejet printers:

Fujitsu Breeze 100	£NEW PRICES!
Fujitsu Breeze 100 Plus	£NEW PRICES!

IVS

The Trumpcard 500AT (pictured) has room for up to 8MB RAM and an IDE hard drive. The lowest cost combination.

Trumpcard500AT 80MB HD 0MB RAM	£249.99
Trumpcard500AT No HD 0MB RAM	£119.99

Turn your A1500 into a powerhouse with just one peripheral! The Vector from IVS gives you 68030 power, a maths co-pro, fast SCSI controller, up to 32MB RAM and full 68000 compatibility!

Vector 25MHz EC030, 68882, with 0MB RAM	£399.99

Call us for other configurations!

AMIGA 4000 SERIES

With up to 262,144 colours on-screen at once, the new Amiga 4000 series is a multimedia powerhouse suited to all needs. Whether you choose either the 25MHz 68040-based flagship or the budget-priced 25MHz 68ec030 version, you can be sure of getting the most technically advanced multi-tasking machine on the market. Upgradeable with industry-standard 32 bit SIMMs and with full on-site maintenance , this is all the computer you will ever need.

A4000/040 6MB RAM, 120MB Hard Drive	£NEW PRICES!
A4000/030 2MB RAM, 80MB Hard Drive	£NEW PRICES!
A4000/030 2MB RAM, 120MB Hard Drive	£NEW PRICES!

1MB 32 bit SIMM to upgrade your A4000	£POA
4MB 32 bit SIMM to upgrade your A4000	£POA
We have a wide range of other RAM and HD configurations	£POA

Free Personal Paint with any A4000 purchase!

Commodore monitors support both non-interlaced and de-interlaced screen formats, such as DoublePAL:

CBM1960 14" colour monitor, 15.75/31.5/35.5kHz, .28 dot pitch, resolutions up to 1024 x 768, with free 4 watt speakers	£359.99
CBM1942 14" colour monitor, 15.6-15.8/27.3-31.5kHz, .28 dot pitch, resolutions up to 1024 x 768, integral 1 watt speakers	£379.99

We also stock a full range of approved upgrades such as: FPUs, PC bridgeboards, SIMMs, graphics cards, etc. Ring us for more information.

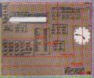
AMIGA PERIPHERALS

A500/A500+	
Blizzard Board Accelerator & 2MB	£79.99
Flicker Free Video 2	£189.99
Power IDE controller with 0/8MB	£99.99
VXL*30/32 68030 & 2MB RAM	£249.99
A600/A1200	
Kickstart switch for A600	£11.99
2MB PCMCIA RAM card	£119.99
A2000/A3000/A4000	
Commodore mouse	£10.99
A2058 8/8MB RAM	£169.99
A2620/2 68020 for A2000 2MB	£129.99
A2286 PC emulator with 5¼"FD	£79.99
A2386 386 PC Emulator 1MB	£199.99

GRAPHICS + VIDEO

AMerge genlock	£249.99
A2300 Internal Genlock for A2000	£49.99
DCTV	£249.99
OpalVision v2	£599.99
FrameGrabber by PP&S	£199.99
EDI Y/C Genlock with Scala v1.13	£399.99
EDI Sirius Genlock + Scala v1.13	£699.99
EDI FrameMachine and Prism 24	£589.99
EDI Flicker Fixer (built-in amp.)	£159.99
Prime Image Bi-directional standards converter board for any Amiga 2000, 3000, 4000 or PC. PAL to NTSC, PAL to SECAM or any other combination	£POA

PICASSO



Picasso is a graphics acceleration card for the A2000, A3000 and A4000. It gives you resolutions of up to 1280 x 1024 in 256 colours and can be used by programs such as Personal Paint, AD-Pro, Pagestream, XCAD-3000, Wordworth and many others! Easy-to-fit and requiring only one monitor Picasso is the solution to your high resolution needs. If you've ever looked enviously at a friend's PC running Windows in 800 x 600, go one better and run your programs at 1280 x 1024!

Picasso II 1MB with Personal Paint Lite	£284.99
Picasso II 2MB with Personal Paint Lite	£329.99

IDEK

Amiga World, in the states, called the MF-5017 (pictured) "...the finest monitor I have ever seen..." and it has to be seen to be believed. The 5017 will display all Amiga screenmodes, whilst the 8217 and 8421 only work from 30kHz upwards, ideal if you have an A3000 or a machine with a Picasso board.
All these monitors have a two-year back to base warranty and are beautifully designed.

IDEK MF-5017 17" colour monitor, 15.5-40kHz, .31 dot pitch, resolutions up to 1024 x 768	£849.99
IDEK MF-8217 17" colour monitor, 30-65kHz, .28 dot pitch, MPR-II, resolutions up to 1280 x 1024, micro-controlled	£799.99
IDEK MF-8421 21" colour monitor, 24.8-85kHz, .26 dot pitch, MPR-II, resolutions up to 1600x1200, micro-controlled, auto power-off, auto contrast, auto size	£1759.99

SOFTWARE BARGAINS

Adorage	£49.99
AGFA Fontpacks - Bulletin/Newsletter	£19.99
AGFA Fontpacks - Office Communications	£19.99
Amiga Vision	£19.99
Animagic	£24.99
Art Department	£34.99
Art Department Professional	£159.99
Audio Gallery - Russian	£39.99
Audio Gallery - Chinese	£39.99
Buddy System for Pagestream 2.2	£19.99
Buddy System for AmigaDOS 2	£19.99
CDPD volume 1 or 2	£14.99
clariSSA	£79.99
DG Calc	£24.99
Helm multimedia authoring system	£89.99
HyperHelpers	£29.99
Imagine Textures - Tiles or Wood	£19.99
Interchange	£110.99
Lunar Construction Set	£9.99
Maths Adventure	£19.99
Media Show	£24.99
MorphPlus	£149.99
Music X v1.1	£24.99
Pegger Automatic JPEG compression	£POA
Personal Paint	£49.99
Personal Write	£15.99
Pro/Motion add-on to Videoscape 3D	£24.99
ProPage2/ProDraw2 Bundle	£49.99
ProVector 2.1	£119.99
Scala v1.13	£149.99
Sculpt Animate 4D	£39.99
ShowMaker	£59.99
Spectracolor	£19.99
Understanding Imagine Book & Disk	£29.99

HOW TO ORDER

You can order by telephone using your credit or debit card.

You can order by post, by sending a cheque, bankers draft or postal order made payable to Amiga Warehouse.

Please add £1.00 to small orders under £100 and £2.00 to small orders over £100 to help cover postage and packing.

Items that are heavy and/or fragile will only be sent by next-day courier delivery, please add £5.50 for deliveries in the mainland UK and check with us for charges elsewhere. (Next day delivery does not apply to Saturdays. Please call and check our charges for Saturday delivery.)

If paying by cheque, allow seven (7) working days for clearance before despatch.

All despatch times are subject to availability.

All prices include VAT.

We welcome overseas orders.

This is only a small sample of what we carry. Call us for items you don't see on the page!

AMIGA WAREHOUSE
UNIT 10, PERTH TRADING EST.
PERTH AVENUE, SLOUGH
BERKSHIRE, SL1 4XX
Tel: (+44) 0753 554338

E&OE

RENDER MODES

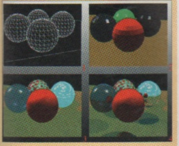
Beware using the term 'ray trace' indiscriminately, because there is a good probability the images you think are ray traced aren't. A ray trace is a very specific method of generating images with total optical accuracy, and many scenes are just too large to permit this form of rendering. Every software package offers different rendering options, and it's up to you to use the most suited for your scene.

Wireframe A wireframe rendition is very fast to create. In fact, some programs can produce them in near real time. They are ideal for a quick look at the form of an object in 3D, especially if a hidden line algorithm is used to make the objects appear solid. Wireframes are also a good idea for previewing animations, and checking on positions and viewing angles. The memory required for these 'outline' animations is very slight, and many seconds of motion can be replayed directly from ram disk.

Solid or Draft When you need to see a solid representation of an object, a view which also includes colour and shaded areas, use a simple solid mode. Textures and maps will not be present in such views, which speed up rendering considerably. Unfortunately, neither will the objects be smoothed so spheres will appear rather rough.

Scanline or Shadowless A scanline algorithm can generate very realistic views, in fact, many images will look perfectly acceptable rendered in this way. The computer looks at each 'scanline' of the display at a time, calculating how the objects in the scene would appear. Proper depth sorting (that is, which object is closest to the camera), smoothing, textures and shading are all possible, although reflections and shadows are not. A mirrored sphere will appear black, and no shadows will appear on the ground.

Ray trace For the ultimate in realism, an image will have to be ray traced. Each pixel on the display is imagined as a ray of light, and traced backwards into the 3D scene to discover where it originated. The ray may come directly from the background, or it may have been reflected from a mirrored surface and transmitted by a piece of glass. The 'depth of recursion' is an important factor in a ray trace and can dramatically affect the end result – picture the scene where two mirrored spheres are placed in close proximity. The scene will be reflected in one sphere, but this image will also be reflected in the other. This scene will then be reflected in the first sphere, and so on – theoretically for ever. A totally accurate scene would require infinite time to complete, but in practice a recursion level of 3 is used which limits the rendering time to an acceptable level. As ray tracing implements real physical laws, it is possible to construct optical instruments using lenses such as magnifying glasses or telescopes. Shadows are created, and environment maps – such as a picture of a cloudy sky – will be faithfully reflected.The many millions of calculations required means that a large ray-trace can take a considerable time to complete.



Each of the above scenes are identical, they have just be rendered in different modes.
1: Wireframe mode,
2: Colour shading,
3: Scan-line (notice the clouds are reflected in the sphere to the right, but not the other spheres)
4: Ray tracing (true reflections, and also correct modelling of glass - both reflective and transparent).

» TEXTURES

Another important characteristic of an object is its texture. This is a rather difficult concept to describe, but you can understand that the texture of a rough piece of wood is completely different to that of a snooker ball. Textures are different from material properties such as reflectance, because they actually alter the shape of an object rather than just its appearance.

There are usually two ways of specifying texture: using procedural methods and using bump-maps. Bump-maps are the easiest to understand, so let's start with those. Think of using *Deluxe Paint* to write your name on the screen, and then saving the picture as an IFF to disk. Now from within the material creation menu of any handy rendering program, you specify this image as a bump-map. Finally, you create a sphere made from this rather personal material, and render it. The finished image will appear to be a smooth sphere and your name will appear as though it has been embossed (or recessed). Most programs use the red component of the bump-map to specify the height of the bumps, which means using smoothly graduating red images create some startling images.

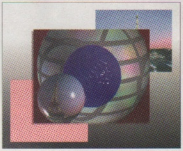
For more advanced use, the non-red colours in a map can be used to control reflectance or transparency. Procedural textures do without the bump-maps, and create the effect purely mathematically. For example, a good wave effect might be quite difficult to create by hand from within a paint program, but mathematically it's dead easy. Furthermore, procedural textures can be easily altered from frame to frame in an animation, thus the waves could be made to lap up on a beach.

HAND ME THE MAP

In order to add that final touch to an object, you'll probably want to add some fine detail: a piece of text or a picture for example. A soft-drinks can will need a logo on it, a computer monitor a display – and that's where mapping comes in. This is how mapping works in rendering programs: you create a picture in a paint package, and then supply it as a map. In this way you can add detail which would take for ever to do with normal object creation, and save a lot of time and memory into the bargain. Procedural maps can also be used to quickly form chequered floors or camouflaged army trucks. Animating or even morphing maps can have a profound effect on your finished work.

Other maps are often used to add the final touch to an image. Backdrops can instantly transport your objects to an alien planet, and environment maps can provide the shiny objects in your scene with a cloudy blue sky to reflect. The more maps you use, the more realistic the overall scene and the more memory you'll need to store them, as rendering programs need the complete map to be loaded from disk and stored in memory before rendering can begin. That said, a chequered pattern only needs four pixels, two of each colour.

When creating extra high resolution pictures, 24bit graphics are essential for best results. Nevertheless, it makes sense to use 24bit maps only when the final image is to be rendered in 24bits. For quick previews, or HAM mode animations, 32 colour maps will probably suffice. *Imagine* has an automatic starry night backdrop, which can not only be used in 'spacecraft and planet' pictures but in producing more down to earth scenes such as 'twilight by the lake' scenes. When you use a previously rendered or digitised image as a backdrop, remember to match the position of the lights. If you don't, the image will have a subtly odd appearance, which the viewer won't be able to exactly pin-point.



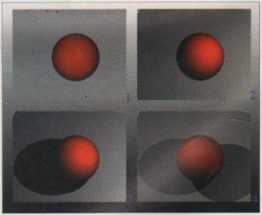
This image demonstrates several forms of mapping. The smallest sphere has the Eiffle Tower bitmapped wrapped around. The middle sphere is coloured blue and then given the rippled bitmap as a bump-map. The largest sphere has been given two procedural textures – a multicolour material and a tiling pattern

LIGHT AND SHADE

To make the most of your objects, good lighting is essential. The default rendering mode in most packages will create a single light, positioned at the same position as the imaginary camera which views the scene. The result is a flat, lifeless image that does no justice to the subtle form of the objects in the scene.

Understanding how the lighting can be used to best effect is easy; try it and see. Take a visit to the local library and get out some books on portrait photograph, there you'll find the best way to position lights. The standard procedure is to use one main light, slightly above and to the side of the main object, with a smaller light acting as a 'fill lamp' to ensure the rest of the scene isn't in total blackness. If you want to render a scene situated outside, the best way is to position a light as far above the objects and then adjust the ambient lighting values to brighten dark areas.

The best images are those which provide the »



The addition of lights can make all the difference to a scene. The first image uses the default light for quick rendering, the second uses a slightly slower 'shadowless' mode. The third image was generated with full ray-tracing – hence the shadow – and the fourth uses two lights for a more rounded and realistic appearance.

Virtual Prototype
© 1993 Infosystems

One example use of rendering programs is to create 'virtual prototypes' of products which don't actually exist.

» most believable and realistic results with the smallest possible number of light sources. Each light added to the scene increases the rendering time, so if the effect of a light is barely noticeable: if in doubt, take it out.

Shadows are a luxury which most of us can't afford, because adding shadows will at least double the image rendering time. The extra calculations necessary to discover which areas are in shade mean that the shadow options should be reserved for extra-special images. Watching animations on TV will prove that shadows are not always necessary. When an image is changing 25 times a second, the extra realism they provide is not as important as you might think. Normally, the rendering process starts with fine-tuning the objects, followed by playing with the composition and rendering test pictures. Finally, when you're happy, you can switch the shadow option on and leave the computer to create the image overnight. Some programs, such as *Real 3Dv2*, allow you to cheat at creating shadows by adding your own shadow maps. This option also provides plenty of scope for special effects.

2D INTO THREE

Most rendering programs allow a rather sneaky way of creating objects by converting two-dimensional images into proper three-dimensional forms. One obvious use is the creation of 3D fonts to include in your latest 'spinning logo' work. The more adventurous user will make use of this 'extruding' feature with all sorts of 2D drawings, going so far as to create them from rather intricate work in *Deluxe Paint*. For example, creating a floppy disk object is incredibly easy if you can draw a blue, white and silver rectangle. Modelling is all about using these cheats to create realistic objects. The first and only rule of 3D rendering is, 'if it looks all right, it doesn't matter how you did it'.

ANIMATION

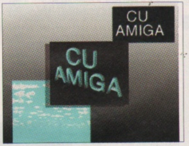
There is no denying that the prospect of animation photo-realistic images is an exciting one. Creating your own cartoons or films is entirely possible: if you set yourself realistic goals. The main problem is the time it takes to create an image with the current hardware at our disposal. Even on a top-of-the-range 68040-based Amiga 4000, a relatively simple image will take at least 15 minutes to render with a decent degree of accuracy. If the animation sequence is to last as long as an average TV commercial, 30 seconds, and is to move at 25 frames per second, you are already looking at a rendering time exceeding a week.

Think of what would happen if, after the week's rendering, you discovered you had forgotten to add a backdrop or switch on a certain lamp and the work was ruined: the importance of previewing cannot be over stressed. The only way around the time problem is to reduce the rendering time of each frame, reduce the length of the animation and reduce the frame rate or to use more than one Amiga.

Therefore, kitting two A2000s out with the fastest 040 boards money can buy and keeping them running 24 hours a day may be the only solution to get work done on time.

Other problems quickly become apparent: 750 frames of colour image data consumes disk space faster than coverdisk programs. The serious animator will soon need to invest in some serious storage devices: optical disks and DATs spring to mind. Then output needs to be considered – can the entire film be animated directly from hard disk? Or will an external framestore and a single frame video recorder be required? It's an expensive business. A depressing argument against Amiga animation? Actually, it's not. All the equipment mentioned above is needed for professional level animations and doing that on a hardware platform other than an Amiga would cost at least ten times as much. The home-based Amiga nut, armed with minimum equipment, can still create animated films – it just takes dedication and a lot of imagination.

Rendering short scenes, playing them back with AAP (see July 1993 issue for details on this PD playback software) or MainActor and recording them section by section on a domestic video can produce outstanding results.



Taking simple text created with *Deluxe Paint*, extruding it into a 3D object with *Pixel Pro* and then rendering it with *Imagine* (using a cloudy sky environmental brush for reflections) is an easy way to create an impressive logo.

CONCLUSION

The photorealistic output from rendering programs is so good it's spooky, so where can we go from here? The barrier at the moment is speed. Rendering a large image takes an awful lot of time, and even the promised 100MIPS 68060 won't supply enough power to solve that problem overnight.

However, with a combination of better coding and faster processors we can be sure on one thing – 3D images will only get better and better. Programs such as *Real 3Dv2* provide us with some hints as to what's to come. Imagine sitting in front of your screen, picking up objects with the mouse and actually throwing them around your computer generated world. Each object is rendered in full-colour in real time, reacting with others as they collide and interact. Using internal problem-solving programming languages, objects can be made intelligent.

The future holds the prospect of not just desktop video, but desktop movies. Soon, we'll be able to create stories using libraries of characters, objects, backdrops and sound effects. We'll write a script and then sit back as the virtual actors work it all out between themselves in the ultimate construction toy – artificial reality.

LOOKING THE PART

If you have an AGA-based Amiga, you can benefit from the fantastic HAM8 mode. Used in hi-res and interlaced mode, HAM8 pictures are practically indistinguishable from pure 24bit images as the Amiga has more than 262,000 colours to choose from for each pixel. What's more, HAM8 can be recorded directly to video tape. Amiga owners who own non-AGA machines have a slightly more limited choice – 16 or 32 colours depending on resolution, or the 4096 colour HAM mode. HAM can look very good, but it lacks the appearance of 'real colour'.

Various devices exist to complement Amiga graphics, from the rather blurry DCTV, through the bargain priced VLAB and antipodean Opalvision all the way to the Harlequin and GVP IV24. Some cards handle animation better than others, some feature built-in digitising, some genlocking and broadcast quality output. It's very plain the choice depends on application and resources, but don't waste money: if you aren't going to be using your Amiga in a professional studio, you don't need broadcast quality. When budgeting for graphic enhancing cards, remember that you may also need to invest in another monitor to see your new display. An ideal would be two 1960-style multisync monitors side by side, although in practice a cheap Philips monitor and a portable colour TV will suffice.

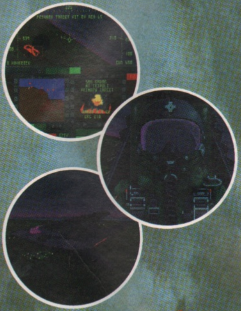
HOW THE PROGRAMS COMPARE

Feature	Sculpt	Real 1.4	Imagine2	Aladdin	Real 2	Cal24
Scanline	Y	Y	Y	Y	Y	Y
Raytracing	Y	Y	Y	Y	Y	N
NMaterials	Y	Y	Y	Y	Y	Y
Textures	N	Y	Y	Y	Y	Y
Procedural textures	N	N	Y	Y	Y	N
Bump-maps	N	Y	Y	Y	Y	N
Multiple textures	N	N	Y/4	Y/Any	Y/Any	N
N24bit support	Y	Y	Y	Y	Y	ish2
AGA support	N	N	N	Y	Y	Y
External video support	N	N	Y/FD	Y/FDO	Y/P	Y/FDO
Animation	Y	Y	Y	Y	Y	Y
Particle animation	N	N	N	N	Y	N
Facet-Based	Y	N	Y	Y	Y	Y
CSG-Based	N	Y	N	N	Y	N
Soft shadows	N	N	N	N	Y	N
Gas objects	N	Y	Y	Y	Y	N
2D->3D	N	Y	Y	ish1	Y	N
Add Text objects	N	N	N	Y	N	N
ARexx	N	N	N	N	Y	N
Alpha channel	N	N	N	N	Y	Y
Manual	3	3	1	2	4	3
Features	2	3	4	4	5	3
Image Quality	3	4	4	4	5	4
Object creation	3	5	1	2	5	5
Scene Editor	4	4	4	2	5	5
Animation editor	3	3	5	3	4	4
Value for money	2	5	4	3	4	4
Overall score	2	4	4	3	5	4

1=Poor 2=Acceptable 3=Good 4=Very Good 5=Excellent
F=Firecracker video card O=Opalvision video board
R=Resolver video D=DCTV support
P=Practically all current video boards
ish2 = Caligari will only save images it has rendered, HAM8 for example. If a external framestore is used, 24bit saves may be supported. ish1 = Aladdin permits bitmaps to be traced by hand.

F-117A™

The Definitive Simulation of America's Radar Elusive Jet



A shadowy, gleaming craft steals through the night sky. Out of sight but never out of mind. Sleek. Slicing through the dark. No blips register on the radar. No sign is given.

Then, in an instant, an explosion bursts through the murky twilight and, as quickly as it appeared, the Nighthawk melts back into the shadows.

The F-117A has carried out another stealth mission.

MicroProse present the definitive simulation of the world's most elusive jet: the F-117A. Now with eye-popping graphics, sensational sound, thrilling music and a vast array of awesome missions across NINE of the world's 'hot-spots'. Catch it if you can!

The Definitive Simulation of America's Radar-Elusive Jet
NIGHTHAWK
F-117A™
STEALTH FIGHTER 2.0
MICRO PROSE

F-117A Nighthawk Stealth Fighter 2.0

Unprecedented, uncompromising and undetected.

MICROPROSE®

Seriously Fun Software

MicroProse Ltd., The Ridge, Chipping Sodbury,
Avon BS17 6AY. Tel: 0666 504399

Available for IBM PC Compatibles and NOW for Commodore Amiga

BUYER'S GUIDE

There are many image rendering programs available for the Amiga, there are even some available in the PD world, but don't expect animation support or a graphical user interface. Here we look at the current batch of programs, what they can and cannot do. If I appear particularly harsh, it's only to differentiate between programs, which to a certain degree at least, all do the same thing.

3D Programs

REAL 3D v1.4

ALTERNATIVE IMAGES, TEL: 0533 440041, PRICE £99.00 (INC TECHNICAL SUPPORT).

From humble beginnings, *Real 3D v1* has grown into a very powerful image rendering program. Pioneering the use of a CSG-style modelling interface, *Real* allows even the most modest Amiga set-ups to produce excellent results. Using *Real 3D* means mastering three different screens: the object editor, the wireframe previewer and the solid rendering control panel. None of the screens are very hard to use, and the wireframe preview screen is particularly impressive; just twiddle a knob and the entire image rotates and zooms in or out.

Creating objects is simple, and the hierarchical structure allows both simple and complex scenes to be produced very easily. The animation facilities offered are also comprehensive, but very cumbersome. The manual is lacking in good examples, so a lot of what is possible you will need to find out for yourself. With *Real 3D*, bump-mapping was offered to the Amiga user for the first time, and the difference this made to how 'real' objects appeared was startling.

Real 3D v1.4 must be the best value image rendering program available today. It's easy to use, doesn't require vast Amiga resources and produces fantastic quality output. It also offers an upgrade route to version two, but it will take a very long time indeed before you outgrow it.

85%

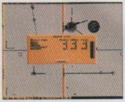
IMAGINE v2

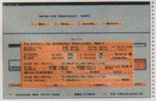
HOBBYTE COMPUTING, TEL: 0582 457195, PRICE:£109.49.

Evolving from Turbo Silver, *Imagine* is probably the most popular image rendering program on the other side of the Atlantic. It uses a point-and-facet approach to objects and a multiple screen approach to editing. Objects are first created in the form editor, then given texture and mappings in the detail editor. The next step is to position them all in the stage editor, define their movements in the action editor and finally render the images in the project screen. Phew! The advantage to so many screens is a vast reduction of clutter; there are no unnecessary buttons or menu options where you don't need them. The disadvantage is that *Imagine* is a tricky program to get to know, and this isn't helped by what is quite possibly the worst manual ever written.

Animation support is the best of all the rendering programs examined here. Material support is also handled very well. In fact, the only weak spots are object creation and the manual. Although lacking some finer rendering options, *Imagine* is still a program I use regularly. Its popularity has resulted in several excellent software add-ons such as two packages of extra procedural textures called *Essence*. Someone had the wit to rewrite the manual, so it's essential that you buy *Understanding Imagine v2* when you buy the software. You can even get hold of pre-defined objects from both professional companies and the public domain, which can help circumvent the form editor in many situations. Version three of *Imagine* has been coming 'real soon now' for years, but it would now seem likely that the release will be held back until it can offer some serious competition to *Real 3Dv2*.

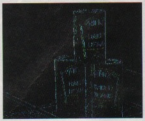
86%





REAL 3D v2

HOBBYTE COMPUTING, TEL: 0582 457195, PRICE:£394.90.



Real 3D has always been one of my favourite rendering programs, as it manages to combine some excellent features into the most user-friendly modelling front-end. With version two of this program, RealSoft have taken the entire concept a whole stage further. There is no doubt that this is the first on an entirely new generation of software. The clever part is the way that objects are dealt with as real physical objects, with mass, velocity and the ability to be acted upon by forces. In *Real 3D v2*, a ball will fall under the action of gravity, and rebound when it hits the floor. A wall built from bricks will collapse when a car crashes into them. A heavy box will bounce down a flight of stairs and all will be rendered in as much detail as you could possibly need. This particle animation system means that each object now has a set of tags which specify any physical properties required.

A unique feature is the ability to create your own user-interface. Most programs used a 'tri-view' display, but if you have a better way of doing things, *Real 2* lets you do it. You start with an empty screen, and then add as many windows are you like. Each window can display the scene from a different viewpoint, including rendered perspective views if you like, or can display the object hierarchy or a list of tools. You can even open a window on an external video-card. ARexx makes a welcome appearance (about time in a rendering program) but *Real 2* takes it one step beyond by also including its own internal control language.

Based on FORTH, the Real Programming Language permits some stunningly complicated animations that would be impossible any other way. To give you a flavour of what is possible, the manual contains examples on how to create your own snow-showers and bowling alleys. This form of animation has previously only been available on some very high-powered equipment.

Real 2 is an amazing program. It's more than just a 'ray tracer', it heralds an entire new generation of desktop image generation. Probably the most important program ever written for the Amiga.

95%

SCULPT 4D

HOBBYTE COMPUTING, TEL: 0582 4571954, PRICE:£198.99.

I remember using *Sculpt* when it first appeared and being totally gobsmacked with the images I produced. Now, years later, *Sculpt* is so far behind the competition that it isn't really worth considering. The reason is simply one of economics; Byte-by-Byte, the creators of *Sculpt*, reckon that the effort and money spent on creating a professional level rendering would simply not be recouped. Instead, they moved up- market and concentrated their efforts almost solely on Apple Macintosh platforms. It's sad, but Byte-by-Byte have forgotten their roots.

45%

Aladdin 4D

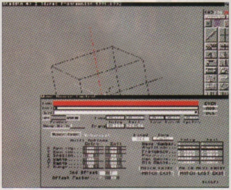
HOBBYTE COMPUTING, TEL: 0582 4571954 PRICE:£213.99.

Yet another update, *Aladdin* used to be called *Professional Draw 4D* in an earlier life and retains much of the features of its ancestors. A polygon-based system, *Aladdin* offers practically everything that *Imagine* does (good image quality, bump and texture maps, animation) but arranges the options in a slightly different way. Gone is the tri-view and multiple screens, instead we have one rotating axis in the middle screen and a problem. Since *Aladdin* is so close to *Imagine* in terms of features, it needs to offer what it has got in a better way. Some would say that their ideal rendering package would have the power of *Imagine*, but with a easy to use interface and a good manual.

Unfortunately, *Aladdin* is not it. Instead, it seems to be a retrograde step. With a change of name, the author should have used the opportunity to completely redesign the user interface. There is no shame in copying the familiar tri-view design – after all it has been used in Technical Drawing classes for hundreds of years. There is no excuse for banks of unintelligible icons, looking so confusing you need to look up the manual anyway. Of course, most of this is from a purely subjective viewpoint.

The rather strange inclusion of Encapsulated PostScript and *ProDraw* clip support might mean that *Aladdin* can capture a niche market in 3D Desktop PublishinG and then again it might not.

70%



Caligari24

AMIGA CENTRE SCOTLAND, TEL:0896 87583, PRICE:£299.

Caligari has been one of those programs which seems to have been with us for years, and yet it also seems to have avoided a lot of attention. With earlier versions this was probably due to the fact that using it was a pig, and results also left a lot to be desired – but that was then, this is now. The back of the box proclaims '*Caligari* – New! 32bit colour!' but don't get your knickers in a twist, that doesn't mean 24bit has been superseded already. Instead, *Caligari* supports an 'alpha channel' which is most useful when combined with some video. Think of it as a form of genlocking, except that the live background can show through rendered objects which are transparent.

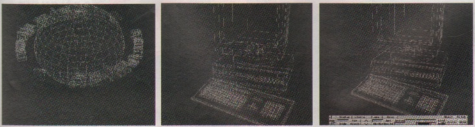
The blurb on the back also mentions 'organic deformations', which are great fun as you can stretch objects as though they were made of some form of 'Stretch Armstrong' material. What the box doesn't tell you is that *Caligari* is not a ray tracer; it uses scanline rendering methods only. Now, this isn't a big disadvantage. In fact, nine times out of ten it's a positive advantage as scanline algorithms are much faster than a proper ray trace. You needn't worry about shadow effects either, as through cunning use of depth buffers shadows are handled almost perfectly. There is no doubt that photorealistic images are possible, but be aware that if optically perfect modelling is your thing, you should think of *Real 3D* first.

Caligari does have several advantages over any of the other rendering programs looked at here, the biggest being the excellent object and scene editing system. Rather than plump for the traditional technical drawing tri-view, *Caligari* uses one single, huge view which shows what's going on in true perspective. The view can be spun, moved and resized extremely quickly with only a few mouse clicks, and when the many tools are applied the overall effect is astounding. More than any other program, creating an object with *Caligari* is like modelling in some form of magic clay. Your virtual hands can shape, stretch and mould the wireframe objects with minimal effort – after using *Imagine* it's a revelation. It's like *Aladdin*, but it's good.

There is a catch to all this, and it's rather a big one, I'm afraid. In order to attain the sort of speeds necessary to manipulate the objects, *Caligari* switches off the Amiga's operating system. Yup, hard to believe, but gone is multi-tasking. No Amiga-M or Amiga-N, and even worse no flicker-free double scan display on suitable monitors when an AGA machine is used.

At first, I was horrified that Octree could cripple my Amiga in this way. Then I remained horrified as the realisation that words such as *ARexx* and *Caligari* would never appear in example tutorials together. Finally, I stayed horrified, as it really is awful returning to a PC-like environment, no matter how smooth the object manipulation is. The only thing to wake me from my petrified state was the complimentary and explanatory videotape that fell from the box. At last, a software company with some sense: you would be very surprised by the number of modelling and graphics programs which come supplied with manuals with little or no pictures. Watching the video impressed me enough to persevere, and I have to say that maybe, just maybe, Octree mightn't spend the afterlife toasting in the company of Scandinavian chip-ram only demo coders. The object manipulation is really smooth, and even the animation editor is simple to use. It might not be a next generation program like *Real 3Dv2*, but *Caligari* is probably the easiest package of all to use. The output quality is more than adequate, even though it would appear that saving a pure 24bit image is not allowed and only IFF variations, such as HAM8, may be stored.

80%



The *Caligari* editor combines speed with easy of use. The catch is that Intuitions is put on hold, so no multitasking I'm afraid. The quickerender option lives up to its name. *Calagari* doesn't hang around much at all, especially on machines fitted with maths co-processors.

DISCOVER a WHOLE NEW WORLD of PC GAMES

- Two cover disks every month bringing you the best in PC entertainment
- The most in-depth, up-to-date reviews in the business
- Players' guides, tips and cheats for all the top games

MAY 1993 • £3.95 • DM19,00
PC review
THE COMPLETE GUIDE TO PC ENTERTAINMENT
3½" disks with this copy
PRINT SHOP DELUXE
FULLY PLAYABLE DEMO
Missing disk? Consult your newsagent
Missing disk? Consult your newsagent
X-Wing
FULL REVIEW INSIDE
ALSO REVIEWED
Space Quest 5, Shadow of the Comet, Archer Maclean's Pool
FLIGHT SIMULATOR 4
Microsoft's veteran: the story so far…
VIRUSES
How to protect yourself from infection
PLUS Tips and hints for Ultima Underworld II

- Extensive beginners' guides for configuring your PC to play games

Place an order with your newsagent now

DON'T BE A MONSTER ASTRO-GEEK AND MISS OUT ON THE BIGGEST HAPPENING FOR 65 MILLION YEARS.

* MONSTER~HUGE COMPETITIONS WHICH LEAVE OTHER SAD MAGS IN THE SHADE.

* TOP~BANANA FEATURES WITH EUROPE'S BIGGEST STARS.

* MASSIVE NEW SIGNINGS OF FOOTBALL'S BIGGEST-EVER NAMES.

MATCH

THE BIG~VALUE FOOTY MAG WITH IDEAS YEARS AHEAD OF THE REST.

100% ALIVE

Pick up someone else's litter

Go for a day without speaking

Learn a second language

Write to Mother Teresa

Every day at the same time stop and think about something wonderful

Send your mum some flowers

Go and see Ryan Giggs

Turn your radio up full blast

Say a prayer every night

Strip right down to your underwear

Get your nipple pierced

Teach a child to read

Have a day without TV

Go for a run around the block

Buy a book on Jeff Koons

Ring 071 700 3100 and tell London something it needs to know

Read a page from a book by Charles Dickens

Tune your radio to Kiss and pull the knob off

Stare at the clouds for a full ten minutes

Play football in the street

Hug someone of the same sex

Believe in yourself

Buy Marvin Gaye's 'What's going on'

Give £100 to a down and out

Put your change into a bottle for a year and give it to charity

Eat a pineapple

Tell someone a secret

Make a statement

Visit Great Ormond Street Hospital

Write the alphabet backwards

Begin something you've always wanted to begin

Order an empty skip and leave it outside your house for a week

Meet an old friend you haven't seen for years

Go to the market and spend 10p

Talk to a child about the future

Learn something new every day

Help someone today

Make a record

Think purple

Throw away your watch

Wear a wig

Dance the dance electric

Wallpaper the inside of your car

Laugh

Make everyone at work a cup of tea

Plant a tree

Take a picture of your back

Go on holiday and don't take any luggage

TUNE TO 100FM,
CLOSE YOUR EYES,
STICK A PIN IN THIS
PAGE AND DO IT.

Plant a tree
Give up your seat on the tube every day
Take a bath in milk
Climb a tree
Watch 'It's a wonderful life'
Get on a bus you never got on before
Drink a glass of water
Clean your ears
Dream for the day
Visit New York
Listen to Jazzie B's next show
Get up an hour earlier tomorrow
Do 100 press-ups
Eat something you've never tried before
Ride a Merry-go-round
Say hello to a policeman
Spend an hour in a place of worship
Send someone a telegram
Put your sofa in the kitchen
Go to a museum

Take a picture of your back
Get on a bus you've never been on before
Dance in the front garden
Shave your head
Feed the birds
Visit an art gallery
Write a poem
Feed someone else's meter
Carry a flower all day
Paint your toe-nails
Take your granny to the movies
Stop saying no for a whole week
Put on a dress
Write to your MP
Make a wish
Go home a different way every night for a week
Learn to listen more
Sing a song at the top of your voice
Help a stranger with their shopping
Write a fairy-tale
Spend an afternoon speculating on how to make a million
Listen to Rodigan's next show, in the park

Make everyone at work a cup of tea
Crawl to your partner under a full moon
Do a jigsaw puzzle
Get your hair cut
Dance in the rain
Fast for a day
Buy a hat
Use a fountain pen
Walk home today
Feed the dog
Invite your neighbour to tea
Give your favourite possession away
Memorise a Woody Allen joke
Tell the truth for a day
Scream
Put the kettle on
Take up knitting
Forgive someone

Go on holiday and don't take any luggage
Say yes for a day
Put your name on a star
Stop someone getting AIDS
Learn to fly
Do a cartwheel
Tell someone your dreams
Walk on the grass
Make a million pounds
Talk about God with a friend
Wink at someone ugly
Buy the next record you hear on Kiss
Buy your boss a present
Tell someone you appreciate what they do
Buy a friend your favourite book
Tune into Caesar tomorrow morning at 4am
Photocopy this ad and get someone else to do it
Only boil as much water as you need
Learn a new word every day
Do one thing to make the world a better place to live

Kiss 100fm

SCREEN SCENE

Strap in for a roller coaster ride through all the new game releases.

54 DREAMWEB
54 CAMPAIGN II
55 JACK THE RIPPER
56 EVOLUTION: LOST IN TIME
56 RAIDEN
60 DEFENDER OF THE CROWN II
60 TERMINATOR 2
60 MORTAL COMBAT
60 CANNON FODDER
72 STAR TREK – 25TH ANNIVERSARY
82 SPACEHULK
87 F17
90 HIRED GUNS
92 YO! JOE!
94 D-HERO
95 PREMIER MANAGER 2
98 VFM
103 TROLL'S HEAD

A CU Screen Star is for games scoring 85%-92%. If a game gets one of these, it'll be of lasting quality and you can rest assured that, if you decide to purchase it, you won't be wasting your money.

AMIGA SCREEN STAR

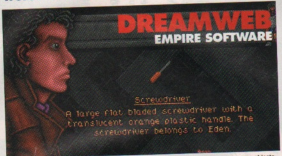
93% and a game's worth a Superstar. We hardly throw them around, but if a game gets one it'll be completely outstanding.

CU AMIGA SUPER STAR

The games scene is bursting with releases in the run up to Christmas. Here's our selection of the best and the worst it has to offer.

FIRST

DREAMWEB
EMPIRE SOFTWARE



Screwdriver
A large flat bladed screwdriver with a translucent orange plastic handle. The screwdriver belongs to Eden.

Whenever you collect an object in this game you'll be able to examine it. However, some objects have no use other than as decoration.

THE GAMEPLAY: Take the set from *Blade Runner*, add a dash of *Invasion of the Body Snatchers* and you'll get a pretty good idea what *Dreamweb* is all about. This top-down adventure pits a lone player against the forces of evil (again!?!).

Your character has been chosen by the Guardians of the *Dreamweb* – a sort of virtual reality of dreams – to hunt down and kill seven evil beings that have assumed human form.

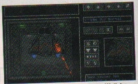
WHAT'S NEW: Not the plot that's for certain. However, this game is unusual in that it is probably the first top-down adventure to appear on the Amiga. There have been other games that have utilised this perspective but not within the adventure genre. There's even a magnify mode that blows up the section you're in, so you can spot tiny objects.

BEHIND THE SCENES: This game's been in production for nearly three years, which isn't surprising given that there's only two coders.

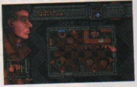
The team, called Creative Reality, is comprised of Neil Dodwell and David Dew. Their attention to detail is astounding with many active objects at every screen location. They've even designed a custom editor especially for *Dreamweb*, which is the reason for the consistency in style throughout the game.

FIRST IMPRESSIONS: Wow! Gimme, gimme. This whole game oozes character, the mood is sombre, the graphic style distinct and the use of an overhead view breathes life into a formulaic genre.

Dreamweb is also extremely violent; if you thought *Syndicate* was bloody wait till you see this. For instance, the first being you have to kill is impersonating a rock star and you have to hack your way through his bodyguards with a fire axe before blowing him away with your pistol – all depicted in full colour gore! Definitely an adult game.



Oops, someone is trying to escape. Well, he won't get far – not after I introduce my 45 to his engine.



As with any adventure character, interaction will play an important part of the game's development. Here Ryan, the star, is about to get fired from his job in the bar.

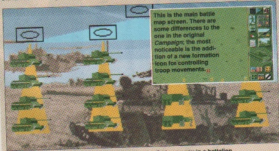
CAMPAIGN II
EMPIRE SOFTWARE

THE GAMEPLAY: A tank-based strategy sim, incorporating a mix of overhead-map planning stages and a 3D first person-perspective combat section. Essentially, the real beauty of *Campaign* is the ability it offers to either send out your orders to commanders and then sit back and watch the battle unfold, or to actually jump into individual vehicles for a more close up view of the action.

WHAT'S NEW: The whole system has been overhauled to include all the post-war vehicles from Abrams battle tanks to modern helicopters. This means that the coders have had to incorporate a whole new range of weapons systems, including guided missiles, night sights and laser rangefinders. So, there's been over 100 new 3D shapes added and there's even animated infantry which can be deployed from armoured personnel carriers.

BEHIND THE SCENES: After the success of the original *Campaign*, the team decided to expand the scope of the game. To achieve this, they consulted military experts about the complex strategies that are used in controlling armies at all levels of command. Basically, all this means is that you can now control everything from individual tanks in battle through regiments all the way up to whole divisions.

FIRST IMPRESSIONS: At first sight it appears to differ very little from the



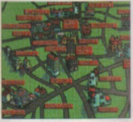
This is the main battle map screen. There are some differences to the one in the original *Campaign*; the most noticeable is the addition of a new formation icon for controlling troop movements.

Here we have a diagrammatical representation of the first company in a battalion.

T IMPRESSIONS

JACK THE RIPPER

MIRAGE



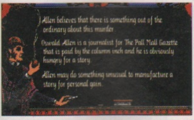
THE GAMEPLAY: In 1888, a series of grisly murders took place in London. Victims were butchered before having their intestines wrenched out. The press quickly seized on such macabre events, nicknaming the murderer Jack the Ripper. Although a manhunt was launched, no-one was ever charged with the murders, and the case has remained one of the great unsolved crimes of the Victorian era.

Now, you have the chance to solve the case for yourself. This game is an authentic recreation of events, and it's up to you to piece together the fabric of evidence as it unwinds and solve the crime.

Everything in the game is mouse-controlled with a series of pull-down menus used to access some of the more complex game commands, such as questioning suspects for information and storing any vital clues. Upon visiting the scene of a murder you have the chance to investigate the general vicinity for a murder weapon and interrogate any possible suspects.

There are numerous ways to complete the game, with each clue uncovered adding to your overall score.

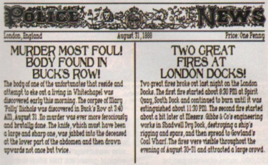
Each time you load up the game, a different set of clues are created and these can shift the finger of suspicion on to any one of a number of characters, so no game will be exactly the same.



Allen believes that there is something out of the ordinary about this murder.

Oswald Allen is a journalist for The Pall Mall Gazette that is paid by the column inch and he is obviously hungry for a story.

Allen may do something unusual to manufacture a story for personal gain.



POLICE NEWS

London, England | August 31, 1888 | Price: One Penny

MURDER MOST FOUL! BODY FOUND IN BUCK'S ROW!

The body of one of the unfortunates that reside and attempt to eke out a living in Whitechapel was discovered early this morning. The corpse of Mary 'Polly' Nichols was discovered in Buck's Row at 3:40 AM, August 31. No murder was ever more ferociously and brutally done. The knife, which must have been a large and sharp one, was jabbed into the deceased at the lower part of the abdomen and then drawn upwards not once but twice.

TWO GREAT FIRES AT LONDON DOCKS!

Two great fires broke out last night on the London Docks. The first fire started about 8:30 PM at Spirit Quay, South Dock and continued to burn until it was extinguished about 11:30 PM. The second fire started about a bit later at Messrs. Gibbs & Co's engineering works in Shadwell Dry Dock, destroying a ship's rigging and spars, and then spread to Gowland's Coal Wharf. The fires were visible throughout the evening of August 30-31 and attracted a large crowd.

WHAT'S NEW: Not a lot really. This is a direct port from the PC version, with no enhancements whatsoever.

Rather than opt for a LucasArts-type adventure, the game's developers, Intergalactic Software, have used a rather staid windows-style environment.

BEHIND THE SCENES: The game's been designed by Ezra Sidran, the programming brains behind the highly-rated *Universal Military Simulator* (UMS).

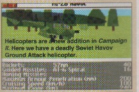
Ezra has spent many months painstakingly researching the murders, slowly building up a vast database of knowledge to incorporate into the game. The result is a factually-accurate murder mystery which incorporates over 100 actual persons/suspects as well as dozens of authentic locations.

FIRST IMPRESSIONS: The sheer wealth of detail included in the game makes this an ideal way to learn about the Ripper killings. Ezra has unearthed a treasure trove of interesting facts and incorporated them into a game which is crammed with clues and red herrings. It's literally a race against time to track down the killer before he strikes again.

Although the game's graphics are decidedly ropey, it remains to be seen if the gameplay can rise above such superficial considerations. Full review next month.

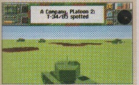
……

original *Campaign*, so it remains to be seen whether they have tweaked the gameplay sufficiently to make it a step on from its predecessor.



Helicopters are a new addition in *Campaign II*. Here we have a deadly Soviet Havov Ground Attack helicopter.

Rockets: 57mm 40
Guided Missiles: AT-6 Spiral 16
Homing Missiles:
Maximum Armour Penetration (mm) 200
Cruising Speed (km/h) 100

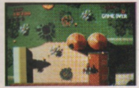


Probably the most familiar view to *Campaign* players is this 3D representation of a battle. As ever this one shows a platoon of American M26 Pershing tanks about to take on the Russians.

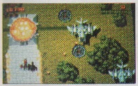
RAIDEN

U.S. GOLD

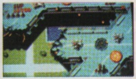
THE GAMEPLAY: Pilot the experimental *Raiden* Close Assault Striker to defend the Earth from hordes of alien invaders in this classic coin-op conversion. The programmers aim to provide a perfect recreation of the original Seibu coin-op complete with 100 per cent accurate attack waves, eight levels and over 1500 unique enemy sprites.



The game starts out in the country where you must locate a crashed alien transporter and then blow it up.



The second level is set over an urban landscape. The enemies change accordingly with more industrial-type attack vehicles.



The game uses many section guardians – ships that require multiple hits before exploding then offer pick ups to boost your capabilities.

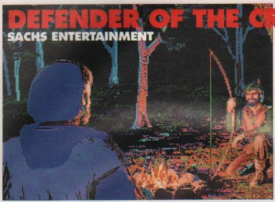
WHAT'S NEW: Very little about this coin-op conversion is anything like new. The graphics, gameplay and overall concept have been done so many times before that it will take something really special to make it into a success. However, that said, fans of the coin-op may love it.

BEHIND THE SCENES: The little something that could make *Raiden* a classic is the addition of a special attack wave editor. It was developed for use in mapping the waves in the coin-op so that they could be accurately transferred onto the Amiga. However, the team are now planning to release it as a stand-alone companion to *Raiden* so that you'll be able to modify waves any way you want thus prolonging the game's life. Its potential as a successor to the *SEUCK* is obvious.

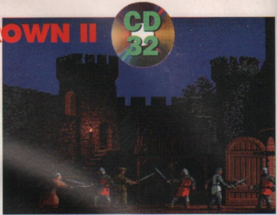
FIRST IMPRESSIONS: Apart from the editor there seems little about *Raiden* that raises anticipation levels. This type of game is so easy to produce on an Amiga that it'll even run on half meg machines. Despite being a great fan of the coin-op, I won't be drooling for this release.

DEFENDER OF THE CROWN II

SACHS ENTERTAINMENT



So much for Robin Hood. In all the tales I've seen he was a good guy, but here he's nothing but a pain nipping into your castle and stealing the cash.



With the storage capabilities of the CD32 available the finished version of the game should not only 256-colour still shots but actual animations as well.

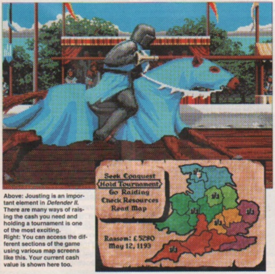
THE GAMEPLAY: Set in England in 1192, the aim of game is to raise enough money to rescue King Richard the Lionhearted, who's being held prisoner by Leopold of Austria. The ransom has been set at £20,000, most of which can be acquired by careful taxation of your land. Obviously, the more land you own the more money you can raise. Basically, the idea is to raid and conquer neighbouring territories through sieges, mass combat and jousting tournaments. In between, you'll have to deal with Robin Hood types nicking your cash and distractions in the form of damsels in need of rescue.

WHAT'S NEW: As well as being one of the earliest CD32 releases *Defender II* looks like being the first truly international game with English, German, French, Italian and Spanish language versions all on the same disc. This is quite some feat considering professional actors were used to read all the text on the title screens, the in-game text boxes and all other narration.

BEHIND THE SCENES: The guy in charge of *Defender II* is Jim Sachs, who was the graphics artist on the original game. It's has been written using a development language called *The Director 2*, with Jim writing completely new code and trying to enhance just about every aspect of the original game. One particular area of concern was the music. So Jim used a variety of tools to create state-of-the-art sounds for the game, *Music-X* helped composition, whilst a Roland MT-32 (a 32 channel music board) was used to to generate the synthesised instruments.

FIRST IMPRESSIONS: If any one game was responsible for the mammoth success of the Amiga it was *Defender of the Crown*. All of a sudden, while others were still playing around with C64s and Spectrums, along came a game that thrust us all into the world of 16-bit. *Defender II* should be quite a significant title on its release, having the ground-breaking reputation of its predecessor to back it up.

Whether it will prove as revolutionary as the original remains to be seen. What it should do though is provide a whole new generation of games players, the ones who missed the thrill of the original, with a chance to experience what we 'oldies' went through first time.



Above: Jousting is an important element in *Defender II*. There are many ways of raising the cash you need and holding a tournament is one of the most exciting.
Right: You can access the different sections of the game using various map screens like this. Your current cash value is shown here too.

EVOLUTION: LOST IN TIME

U.S. GOLD

Whenever an alien artifact is found an used for the first time the game will present you with a humourous cartoon.

THE GAMEPLAY: Set in an alien base, the aim of the game is to guide your characters through 80 levels of deviously designed platforms to reach matter transporters so they can get home. If you've played *Humans*, also from Imagitec Design, then you'll have some idea what this is about. Not exactly a sequel, more a progression, it uses one of the cavemen from the first game and teams him up with six caricatures of historical figures in a platform based puzzler. The other team members include, Robin Hood, Merlin, and Confucius, each with their own special ability that can be utilised to help you solve the puzzles.

WHAT'S NEW: The first major change to gameplay is the use of seven very different characters with special abilities. Also, the levels have been grouped in sets of 20 so that you can solve the levels in any order you wish before progressing to the next group. The user interface has been altered too – you select characters by clicking on them or on their portraits below the main screen. Compared to other games in the genre there's not really anything that makes Evolution stand out.

BEHIND THE SCENES: The game has been in development by an eight man team for over nine months. They carefully analysed the reviews of Humans as well as comments made by purchasers in an attempt to construct *Evolution* in a form that would have a much greater appeal. This is evident in the difficulty curve that's been built in with extensive testing taking place to ensure that it is pitched just right.

FIRST IMPRESSIONS: There are so many platform puzzler available these days that it's difficult to produce something that'll make a lasting impression. No matter how many cute characters you have or special powers they possess a game like this is made by how addictive it is. Opinions must therefore be reserved until we get hold of a review copy.

Despite the fact that the game is set on some alien moonbase far away at the other end of the universe this scene bears a striking similarity to Earth!

HARWOODS DECADE OF ASSOCIATION WITH COMMODORE
10 YEARS
From VIC 20 to AMIGA 4000

the latest AMIGA technology from Gordon Harwood Computers

FREE GOLD SERVICE
SEE PAGE 3 FOR FULL DETAILS

NEW! AMIGA A1200 DESKTOP DYNAMITE PACK

INCLUDES... AMIGA A1200 COMPUTER WITH A FANTASTIC NEW SOFTWARE BUNDLE... DELUXE PAINT IV-AGA, PRINT MANAGER, THE SUPERB NEW 'DENNIS-AGA' (based on the film), 'OSCAR-AGA' & the home word processor 'WORDWORTH 2-AGA' (compressed version).

Only...£

Phone us NOW for KEENEST PRICES!

DESKTOP DYNAMITE is available as an alternative in Harwoods Autumn Gold Packs (shown right) including HD versions, PHONE!!!

PHONE FOR KEENEST PRICE!

CD32

The new fully expandable Amiga 32 Bit CD is the machine for the ardent games player who may also want a full computer system as their needs grow. The best of 256,000 colour Amiga AGA graphics technology, PLUS a multi-session CD drive, to give potentially 600Mb. of ultimate animated graphics & digital stereo sound on each optical disk. MANY titles are under development, scheduled for release before Christmas at prices far lower than those for other CD systems!!!)
What's more, at Harwoods you will get some great CD Software FREE OF CHARGE! Titles will include DIGGERS and OSCAR!!!
CBM's INITIAL STOCKS & EXPANSION PERIPHERALS ARE LIMITED so, call us now for your PRIORITY ORDER!!!

HARWOODS AMIGA 4000 030 & 040 Versions

FANTASTIC NEW 68030 & 68040 MODEL AMIGA 4000's ARE NOW SHIPPING WITH A CHOICE OF MEMORY (FROM 2Mb. RAM) & HARD DRIVE CONFIGURATIONS (FROM 80Mb. to 540Mb).

Call us for the KEENEST PRICES combined with the BEST SERVICE AROUND!

AND... Remember all our machines are UK SPECIFICATION with On-Site Warranties (This isn't always the case elsewhere!!!)

HARWOODS AMIGA LIFETIME WARRANTY PLAN

We are pleased to announce our new "LifeTime" Warranty Options

Backed by one of the UK's leading independent insurers, you can now add a Warranty to ANY Hardware item from Harwoods. You'll never be faced with an unexpected repair bill again!!! Take out up to 5 Yrs cover and at the end of that period you can extend cover annually... thus, insuring your Amiga for a LifeTime. What's more the warranty IS fully transferable & so will help you to get the best possible price should you sell your computer at any time. 5 years warranty for a new Amiga A600 would cost just £45! This new scheme IS available now even if you have purchased your hardware elsewhere! Phone for details... And stop worrying straight away!!!

stop press

star SJ144 THERMAL COLOUR PRINTER

NOW IN STOCK... A GREAT NEW 360X360dpi HIGH QUALITY CMYK COLOUR THERMAL PRINTER WITH LOW RUNNING COSTS...£579.95

Amiga Compatible Apple™ Printers

SEE PAGE 3 FOR GREAT PRICES

BLIZZARD 1200-4 UPGRADE BOARD

AMIGA FORMAT GOLD AWARD 'BEST UPGRADE' - See Page 2 for full details of this great upgrade FOR LESS THAN £170!

HARWOODS AMIGA 1200 EXCLUSIVE PACK Options
1200's with/without Hard Drives+Printers+Monitor/TV's!!!

At Harwoods YOU decide the configuration of your NEW AMIGA 1200! Do you need a Hard Drive (and if so will it be an 80, 120 or 210Mb. capacity? Would you prefer serious software or a terrific games pack. Will you need a monitor or printer? Would you like the peace of mind of a LIFETIME WARRANTY? ALL THE OPTIONS ARE THERE FOR YOU TO CHOOSE!!!

HARWOODS AMIGA PACK1 A1200 AUTUMN GOLD

See our Options Chart (below)

The ideal first time package for everyone...
AMIGA A1200 COMPUTER WITH NIGEL MANSELLS GRAND PRIX & TROLLS
Everything you need to plug into your TV and use right away... £264.95

HARWOODS AMIGA PACK2 A1200 AUTUMN GOLD

See our Options Chart (below)

As Pack 1 above plus...
THE SUPERB PHILIPS PRO 2000 MONITOR/TV, 14" COLOUR MEGASOUND!!!
Combine the superb A1200 with a fantastic display & television... £499.95

HARWOODS AMIGA PACK3 A1200 AUTUMN GOLD

See our Options Chart (below)

As Pack 1 above plus...
A PHILIPS PRO 2000 14" COLOUR MONITOR/TV & A CITIZEN 240C COLOUR PRINTER IN ONE GREAT BUNDLE!
Probably the most complete... hardware package at a great price... £759.95

ALL our A1200's come with new Autumn Gold Software NIGEL MANSELL's GRAND PRIX and TROLLS

A1200 Options 'AT A GLANCE'

AMIGA PACK ▼ DETAILS ▼	NO HARD DRIVE	HARD DRIVE Options [see pg 2] 80Mb.	120Mb.	210Mb.
A1200 AUTUMN GOLD STAND ALONE PACK	£264.95 PACK 1	£464.95 PACK 1/80	£534.95 PACK 1/120	£649.95 PACK 1/210
A1200 AUTUMN GOLD + PHILIPS PRO 2000 MONITOR/TV	£499.95 PACK 2	£679.95 PACK 2/80	£754.95 PACK 2/120	£879.95 PACK 2/210
A1200 AUTUMN GOLD, PHILIPS PRO 2000 MONITOR/TV & CITIZEN 240C COLOUR PRINTER	£759.95 PACK 3	£939.95 PACK 3/80	£1014.95 PACK 3/120	£1139.95 PACK 3/210
A1200 COLOUR POWERPRO PACK (see feature)	NO OPTION	£999.95 PACK P/80	£1074.95 PACK P/120	£1189.95 PACK P/210

ADD JUST £200 IF YOU PREFER A MICROVITEC 14" COLOUR MULTISYNC MONITOR IN PLACE OF A PHILIPS PRO 2000
(Applicable to packs above that include a Monitor/TV)

HARWOODS AMIGA Options EXCLUSIVE! POWERPRO PACKAGES!

COLOUR POWERPRO PACK

A1200 COMPUTER FITTED WITH 80Mb. HARD DRIVE supplied with... CITIZEN 240C COLOUR PRINTER (inc. all leads & Citizen Print Manager 2), PHILIPS PRO 2000 COLOUR TV/ MONITOR inc. leads, A1200 Dust Cover, 240C Dust Cover, Mouse Mat, Printer Paper/Labels, Final Copy II, Superbase, Superplan & Autumn Gold Software - What a Pack! PACK P/80

A COMPLETE PACK FOR EVERYONE only: £999.95 INC VAT

OR... If you prefer

COLOUR POWERPRO PLUS PACK

The COMPLETE POWERPRO pack as detailed above but with the superb MICROVITEC 14" COLOUR MULTISYNC MONITOR (in place of a Philips Pro 2000) FOR THE REAL ENTHUSIAST £1199.95 INC VAT

HARWOODS Amiga A600 BARGAINS PHONE FOR THE LATEST PACK DETAILS & NEW LOW PRICES!

HARWOODS AMIGA Options POWERPLAY 18 GAMES PACK!

Buy a PowerPlay Pack for EXTRA ADDED VALUE!!!

Competition Pro 5000 Microswitched Joystick, Amiga Dust Cover, 10 - 3.5" Blank Disks, Mouse Mat, Disk Storage Box, plus...

EIGHTEEN GREAT GAMES: Xenon 2 Megablast, TV Sports Football, Hostages, Jumping Jackson, Stir Crazy, Bubble Plus, Bloodwych, TinTin On the Moon, Krypton Egg, Purple Saturn Day, Eliminator, Skychase, Safari Guns, Lombard RAC Rally, CaptainBlood, Strike Force Harrier Sky Fox II and Lancaster

18 GREAT GAMES for only... £34.95

...when purchased WITH AN AMIGA or just £39.95 separately. [Note Xenon 2 Megablast, Strike Force Harrier & Eliminator are NOT compatible with A1200/3000/4000 computers].

Buy a ZOOL Pack & get both Business & Games titles!

- ZOOL - Great Sonic style game!
- PINBALL DREAMS - 4 Tables!
- STRIKER - Fantastic Football!
- TRANSWRITE - Easy to use Amiga WP!

Super Low... £14.95

Purchased WITH AN AMIGA, or just £19.95 bought separately

AMIGA Options ZOOL PACK

AMIGA Options HARWOODS EXTRA PACK

BUY A HARWOODS EXTRA PACK FOR GREAT VALUE...

- TEN BLANK DISKS
- DISK LIBRARY BOX
- QUALITY MOUSE MAT
- AMIGA DUST COVER
- COMPETITION PRO MICROSWITCHED JOYSTICK

Just the pack to get you started and at a super low price... £14.50

Purchased WITH AN AMIGA, or just £19.50 bought separately

0773 836781 **GORDON HARWOOD Computers**

ALL PRICES ARE INCLUSIVE OF VAT AT 17.5%

HARWOODS DECADE OF ASSOCIATION WITH COMMODORE
10 YEARS
From VIC 20 to AMIGA 4000

PRICE FLUCTUATIONS! Please note that certain items, inc. RAM Chips (SIMMS) & their hard drives etc., fluctuate in price on the strength of the £ against the other World currencies, general supply & demand. Please ask for latest prices of any such components. Adverts are placed up to 7 weeks prior to publication & variations may occur. Please check!

STOP PRESS... FREE Pen Pal worth £49.95 with ALL Citizen 240 Printers!!!
OFFER ENDS LAST DAY OF SEPTEMBER 1993!!!

STOP PRESS... NEW STAR 360dpi FULL COLOUR LOW COST PRINTER SUPERB HIGH QUALITY OUTPUT...PHONE US NOW!

the extensive range o
peripherals & software

AMIGA MONITORS & MONITOR TV's

All our monitors & monitor/TV's are supplied to use right away with a cable to your Amiga. A quality vinyl dust cover is FREE with monitors too!

PHILIPS MONITOR/TV

PHILIPS PRO 2000 14" COLOUR SUPER-RES MONITOR/TV

With the discontinuation of the CM8833 the Pro2000 is now the clear winner

2000 Character High Definition FST Tube, Direct SCART Lead Connection, RGB/AD, Composite Video & Direct Audio Inputs, Full FastText Teletext, Socket to plug in your Headphones, Infra-Red Remote, with Loop Aerial & FREE SCART Lead.

NOW YOU CAN COMBINE THE BEST OF BOTH WORLDS... A QUALITY DISPLAY FOR YOUR COMPUTER AND A FULL FEATURE TELEVSION SET WITH SUPERB 'MEGASOUND' ALL IN ONE! **£239.95**

HIGH RESOLUTION MICROVITEC

MICROVITEC 14" TRUE MULTISYNC COLOUR MONITOR

One for the REAL ENTHUSIAST! .28 dot pitch, built-in DMS, max res. 1024x768 (interlaced).

SUPERB QUALITY... **£439.95**

COMMODORE COLOUR MONITORS

NEW COMMODORE 1084S COLOUR 14" STEREO Commodores own MONITOR PERFECT for ALL Amigas incl. all cables etc. **£179.95**

NEW COMMODORE 1940 MULTISYNC 14" COLOUR STEREO MONITOR [for A1200's, 3000's & 4000's] Commodores own multisync monitor with .39 dot pitch **£299.95**

NEW COMMODORE 1942 MULTISYNC 14" COLOUR STEREO MONITOR [for A1200's, 3000's & 4000's] Highest res. CBM multisync monitor with .28 dot pitch!!! **£399.95**

AMIGA PRINTERS

DOT MATRIX INKJETS AND LASERS CITIZEN, STAR, HP, & CANON

All our printers are supplied for immediate use including cable, paper & labels FREE OF CHARGE. Dot matrix models come with tailored dust cover. We also include specific Amiga driver disks with ALL printers FREE. (with Citizen models you get the excellent, new, improved Print Manager Version2) ALL Citizens have a 2 Year Warranty!!!

Please call for prices on any models not listed

CITIZEN NEW LOWER PRICES	120D+ Mono	£119.95
	NEW Swift 90 Mono	£154.95
	NEW Swift 90 Colour	£169.95
	Swift 200 Mono	£194.95
	Swift 200 Colour	£224.95
	Swift 240 Mono	£254.95
	Swift 240 Colour	£269.95
star	LC20 Mono	£139.95
	LC100 Colour	£154.95
	LC200 Colour	£204.95
	LC24/200 Colour	£269.95
	XB24/200 Colour	£389.95
	SJ48 Mono Inkjet	£209.95

star NEW STAR SJ 144 THERMAL COLOUR HQ PRINTER
Print in Mono AND Colour Smear Free Wax Based Ink Laser Quality 360x360dpi OHP's, Labels, T-Shirt plus all your normal output!!! Only... **£579.95**

Canon Inkjets	BJ10sx Mono	£229.95
	BJ200 Mono, 250cps Includes AutoSheet Feeder	£349.95
	NEW BJ230 Mono, 360dpi, 248cps, with facility to print on BOTH A4 AND A3 size paper!!! Ideal for use with Final Copy II	£399.95
hp	510 Mono Deskjet	£284.95
	500 Colour Deskjet	£329.95
	550 Colour Deskjet	£539.95
star LASERS	LS-5	£629.95
	LS-5EX	£749.95
	LS-5TT PostScript	£999.95

BIG A3 SIZE

Phone for FREE information guide

PRINTER accessories

We only supply original manufacturers GENUINE replacement accessories!!!

RIBBONS

PRINTER	PRINTER TYPE	BLACK RIBBON	BLACK RIBBON 'SIX PACK'	COLOUR RIBBON	COLOUR RIBBON 'SIX PACK'
CITIZEN 120D+	BLACK ONLY	£4.75	£22.95	N/A	N/A
CITIZEN 124	BLACK ONLY	£4.75	£22.95	N/A	N/A
CITIZEN SWIFT 9	BLACK/COLOUR	£4.75	£22.95	£16.45	£94.95
SWIFT 24/24E/224	BLACK/COLOUR	£4.75	£22.95	£16.45	£94.95
STAR LC10/20/100	BLACK/COLOUR	£4.45	£23.95	£5.95	£34.95
STAR LC200	BLACK/COLOUR	£5.95 ZX9	£32.95 ZX9	£12.45 ZX9CL	£64.95 ZX9CL
STAR LC24/200	BLACK/COLOUR	£6.95 Z24	£39.95 Z24	£12.95 X24CL	£69.95 X24CL
STAR XB RANGE	BLACK/COLOUR	£8.95 Z24	£49.95 Z24	£14.95 X24CL	£74.95 X24CL
CANON BJ10e/ex/ 10sx CARTRIDGES	BLACK ONLY	Also compatible with Apple StyleWriter, StyleWriter II and STAR SJ 48 printers			£15.95ea.

ACCESSORIES

Citizen Accessories:

80 Column 9/24 Pin Printer Colour Kit [ALL models except the Citizen 124 model]	£37.95
32K RAM Expansion [24Pin Citizens except 200/240]	£13.95
32K RAM Expansion [Citizen 200/240]	£19.95
128K RAM Expansion [Citizen 200/240]	£32.95

Hewlett Packard Original Consumables

DESKJET 500...

Black Ink Cartridge [Double Life]	£21.95
Colour Ink Cartridge [Standard]	£27.95

Please phone for any item not shown in our listings

PAINTJET...

Black Ink Cartridge	£26.95
Colour Ink Cartridge	£28.95
Single Sheet Paper	£18.95
Z-Fold Paper	£20.95
Transparency Film: [Pack of 50 Sheets]	£49.95

AUTOMATIC SHEET FEEDERS: ALL Star /Citizen 80Col. models [please state type when ordering] Only...£84.95

LASER TONER CARTRIDGES We stock MOST types at really competitive prices...PHONE!!!

AMIGA ACCELERATOR FOR SPEED! UPGRADE BOARDS

If you want some REAL PERFORMANCE from your Amiga Harwoods can offer just that. Just look at the GREAT equipment below...

HARWOODS SUPRATurbo 28MHz Accelerator

Compatible with ALL Amiga A500 & A500 Plus computers. [Amiga A1500 & A2000 versions also available - Please phone and ask for details]. Simply plugs into sidecar slot of 500/Plus or the internal slot of 1500/2000's. SPEEDS YOUR AMIGA BY A FACTOR OF UP TO 4 x NORMAL SPEED! Complete with throughport for RAM or Hard Drive expansions. Ideal for improving print output speeds when using your DTP, graphical or business programs like Final CopyII, Wordworth2, DPaint etc.

Note!... in order to gain full speed benefits, your Amiga must have some FAST RAM [only Standard A500 Plus models DON'T]. Any Sidecar or GVP H.D. RAM Expansion you've already fitted is FAST RAM. Please ask for more details if you are unsure.

Raw Power x 4

1200 Performance just... **£129.95**

ACCELERATOR/CO-PRO BOARDS for AMIGA A1200

GVP1230 40MHz, 68030ec, 32-Bit

1Mb. RAM Version	£289.95
4Mb. RAM Version	£479.95

MICROBOTICS MBX1200 RAM BOARDS Including Clock & Maths Co-Processor

14MHz:

0Mb. RAM	£149.95
1Mb. RAM	£214.95
4Mb. RAM	£304.95

25MHz:

0Mb. RAM	£214.95
1Mb. RAM	£279.95
4Mb. RAM	£369.95

50MHz:

0Mb. RAM	£324.95
1Mb. RAM	£389.95
4Mb. RAM	£479.95

32-Bit SIMM Memory for MBX Boards:

1Mb. RAM	£69.95
4Mb. RAM	£159.95

NEW!

HARWOODS BLIZZARD 1200 Expandable Memory Board

AWARDED 'FORMAT GOLD' (SEPT. 1993 ISSUE PRODUCT REVIEW) WITH THE TOP SCORE OF 93%!!!

AMIGA FORMAT GOLD

BLIZZARD 1200-4/8Mb Expansion & Opt. FPU

- ☐ 4mb RAM as standard & option to add a further 4Mb. Giving 1200's an extra 8Mb!!!
- ☐ 32Bit LIGHTNING FAST Zero wait state FAST RAM (normally quicker than PCMCIA cards)
- ☐ Real Time battery backed clock
- ☐ FPU socket built-in for STANDARD PLCC type Maths Co-Processors of up to 40Hz speed!!! (this is the fastest speed the standard A1200 68020 CPU can access and boards with faster CPU's normally give no extra performance)
- ☐ Easy A1200 "Trapdoor" fitting retaining Commodore Warranties intact
- ☐ Compact design utilising latest SMT (surface mounted technology) for Ultra Reliability
- ☐ Full TWO YEAR WARRANTY

BLIZZARD 1200-4Mb BOARD	**£169.95**
4Mb. RAM Expansion	**£139.95**
33MHz FPU Maths Co Processor	**£79.95**

Options SUPER DEAL... **BLIZZARD 1200-4Mb. Board plus 4Mb. RAM Expansion plus 33MHz Maths Co-Pro for only...** **£369.95**

Harwoods amiga A600& A1200 HARD DISK DRIVES

Our internal A600/1200 Hard Disk Drives are all high quality industry standard units manufactured by recognised & respected Worldwide market leaders (eg.Conner, Seagate, Western Digital etc). Each Hard Drive comes with a one year warranty, driver software, fitting kit & full instructions for you to fit yourself, And... backup and repair utility software

	Self-Fit	Fitted
80Mb	£194.95	£219.95
120Mb	£269.95	£294.95
210Mb	£379.95	£404.95

OTHER SIZES AVAILABLE...Call for details!

If you'd prefer Harwoods to install your new Hard Drive you'll benefit from...

- ☐ Speedy collection of your Amiga
- ☐ Fitting by Qualified Technicians, formatting, Workbench installation, hard disk configuration and pre-installation of invaluable backup and repair utility software.
- ☐ Full 12 month HARWOODS GOLD warranty for BOTH your new hard drive AND your existing computer! (see page 3 for Gold Service details)
- ☐ Courier Delivery back to you.

NO ONE ELSE OFFERS ALL THIS... YOU NORMALLY ONLY GET A WARRANTY TO COVER A NEW HARD DRIVE BUT **NOT** THE WHOLE COMPUTER!!! Probably the BEST WARRANTY available!

A500 500+ HARD DISK DRIVES

Simply plug into Amiga sideport

A1500 A2000 INTERNAL HARD DRIVES

Simply plug into internal slot

Available in 40MMb, 80MMb & 120MMb. capacities with RAM options to suit your own requirements from 0Mb to 8Mb.

GVP 68882 Maths floating point unit for A530's

GVP MEMORY UPGRADES

HC8 & HD8 Drives add EXTRA RAM - 2Mb. SIMM chips at a time simply plug in 32-Bit SIMM chips for GVP Accelerators [min. 2Mb. at a time, 32-Bit chips]

$/£ exchange rates are still fluctuating...CALL FOR LATEST KEEN PRICES for all GVP Products

PHONE FOR EVERYTHING GVP AT GREAT PRICES!!!

0773 836781

**Finance Facilities Available,*

ve
e o
re

ARD
ISK
RIVES

Drives are
d units
espected
s
gital etc).
ne year
g kit &
urself,
oftware

tted
19.95
94.95
04.95
details!

all your
rom...
Amiga
nicians,
nstallation.
nd pre-
backup
e.
S GOLD
new hard
computer!
ce details)
you.
THIS...
VARRANTY
VE BUT
ER!!!
available!

with RAM options to suit your own requirements from 0Mb to 8Mb.

hs
nt
)'s

add
SIMM
ly plug in
for GVP
2Mb. at
s)

S/£ exchange rates are still fluctuating...CALL FOR LATEST KEEN PRICES for all GVP Products

AT PRICES!!!

---

gordon harwood computers

0773 836781

AMIGA

AMIGA accessories

sound & graphic DIGITISERS	Colour Pic Plus	£679.95
	Super Pic	£579.95
	Rombo Vidi 12, V2.00	£74.95
	Vidi 12 & Sound & Vision	
	MegaMix Master	£94.95
	Amas 2 Sound Sampler & Midi Interface inc.Microphone	£74.95
	Audio Engineer Plus	£179.95
	Audio Engineer Plus 2	£249.95
	Technosound Turbo Sampler	£29.95
	NEW Technosound Turbo 2	£44.95
MUSIC	Miracle keyboard	£299.95
	Music X full version 1.1	£24.95
	Midi interface 5port c/w cable	£24.95
	Super JAM	£79.95
	Bars & Pipes Pro 2	£244.95
	ZYFI Stereo Speakers	£39.95
	ZYFI Pro Stereo Speakers	£54.95
	Clarity 16	£109.95
	Stereo Master	£29.95
SCANNERS	Power Mono NEW V3.0 Hand Held Scanner	£109.95
	Power Colour Hand Held Scanner	£239.95
	Sharp JX 100 Colour Flatbed [A6 Paper size]	£549.95
genlocking devices	ProGen - Perfect high quality entry level true video signal genlock	£64.95
	Rocgen Plus	£139.95
	Rendale 8802 inc switch and fader controls, A1200	£179.95
AMIGA MICE	HQ Microswitched MEGA MOUSE excellent magazine reviews...	£12.50
	HQ Microswitched 400dpi Resolution MEGA MOUSE	£15.95
	HQ Microswitched MEGA MOUSE inc. Mouse Mat & Holder	£19.95
	High Quality micro-switched Optical mouse	£28.95
	HQ Microswitched Trackball	£29.95
	Automatic Mouse and Joystick Switcher	£17.95
IBM PC emulators	GVP 286 PC Emulator for your GVP A500 HD8/530... Simply plugs into GVP drive mini slot. Tap into a wealth of PC compatible software for the new low price of just... [No DOS]	£99.95
monitor STANDS	Premier Control Centre & Monitor Plinth with shelf:	
	For Amiga A500	£39.95
	For Amiga A600	£34.95
	For Amiga A1200	£39.95
JOYsticks	Zipstick autofire	£11.95
	Competition Pro-Star autofire, burstfire & slow motion	£13.95
	Python 1M	£10.95
	The 'BUG' Microswitched	£14.95
	Full range of Quickjoy and other makes stocked - please call us for prices	
BLANK DISKS STILL AT LOW PRICES!!!!	10 TDK 3.5" DS DD	£7.95
	50 TDK 3.5" DS DD	£32.95
	10 TDK 3.5" DS HD	£12.95
	Certified Bulk Disks with labels:	
	10 with library case	£6.95
	50 Disks - only...	£24.95
	100 Disks - only...	£39.95
	250 Disks - only...	£94.95
	3.5" Disk Head Cleaner essential for reliable loading	£2.95

for MORE ACCESSORIES...Please Phone us!!!

NEW

MOUSE MECHANIC

Fantastic Universal Mouse Cleaning Tool
Cleans in Seconds, Needs No Fluid
Use again & again **£4.99** +50p p&p

AMIGA EXTERNAL FLOPPY DISK DRIVES

ROCLITE 3.5" ANTI-VIRUS	POWER XL HIGH DENSITY DRIVE	CUMANA 3.5"
External 3.5" Drive Built-In Anti Virus Checker & FREE Head Cleaning Kit	3.5" High Density Drive (extra storage) and... FREE Head Cleaning Kit	External 3.5" Drive ThroughPort, Extra Long Cable and... FREE Disk Head Cleaning Kit
NEW LOW PRICE £59.95	£99.95	£Phone!

AMIGA RAM CARDS & SMART CARDS MEMORY UPGRADES

TRAPDOOR UPGRADES	Amiga A500 1/2Mb.	£32.95
	Amiga A500+ 1Mb.	£39.95
	Amiga A600 1Mb.	£47.95
	A500 & A600 RAM expansions inc. Battery Backed Real Time Clock	
SMART CARD UPGRADES	PCMCIA CARDS for A600/1200	
	PCMCIA, 2Mb.	£119.95
	PCMCIA, 4Mb.	£174.95

Amiga Compatible Apple™ Printers

Apple™ equipment has always had a reputation for its quality and reliability...but, at a price! NOW you can use Genuine Apple™ Printers with your Amiga at far MORE COMPETITIVE prices than you'd imagined was ever possible...

Apple™ Personal LaserWriter™ NTR	Apple™ Color A3/A4 BubbleJet
4ppm Canon engined laser with superfast RISC Processor & 3Mb RAM (upgradable to4Mb). True PostScript™ Level 2. HP LaserJetII & PCL 4+ emulations. FULLY Amiga & PC compatible. Parallel, Serial RS232 & LocalTalk interfaces built-in. No other laser of this quality costs so little... £739.95	Canon BJC 820 engined 360x360dpi BubbleJet. EpsonQ 24Pin emulation. Parallel & SCSI interfaces. A3 & A4 size paper. Up to 300cps in text mode! INFINITE COLOUR OUTPUT using a 4 colour CMYK system of ink cartridges with approx. 700page life. There's no better inkjet at only... £1199.95

Call for your Apple Printer Brochure NOW

Remember we also supply the full range of Macintosh® computers, from a Classic® to a Quadra® for personal callers...

Telephone:
0773 521606 now!
Authorised Reseller®

AMIGA +-x abc educational software

mega maths - A level	£19.95
ADI titles available for ages 11 to 12, 12 to 13, 13 to 14 or 14 to 15 [please specify]	
ADI english (not 14to15 age group)	£18.95
ADI maths [specify from ages above]	£18.95
ADI french [specify from ages above]	£18.95
micro science - to GCSE standards	£18.95
micro maths - to GCSE standards	£18.95
micro english - to GCSE standards	£18.95
micro french - to GCSE standards	£18.95
micro german - to GCSE standards	£18.95
primary maths - 3 to 12's	£18.95
compendium six [6 great programs]	£27.95
reading and writing course - over 3's	£18.95
fun school 2 - Ages 2 to 6, 6 to 8, over 8's	£5.95
fun school 4 software: [choose from - under 5's, 5 to 7's or 7 to 11's, please specify]	£18.95
noddy's playtime [3yrs and over]	£18.95
NEW...Childs Play Activity Centre and Word Processor with SPEECH, 2 to 12yrs	£24.95

Lots More available...Please telephone us!!!

AMIGA software

WORD PROCESSING AND PUBLISHING	Pen Pal V1.5	£49.95
	Final Copy II Release 2 THE BEST WORD PUBLISHER	£99.95
	Kindwords 3	£39.95
	The Publisher	£39.95
	Professional Page V4.0	£129.95
	Pagesetter III	£47.95
	Wordworth	£99.95
INTEGRATED TITLES	Mini Office FEATURING... Word Processor, Spreadsheet, Database and Disk Manager... FULLY INTEGRATED!	£39.95
DATABASE SOFTWARE	Homebase	£15.95
	Superbase 2 Personal	£29.95
	Gallery Pictorial Slide Show/DB	£29.95
CAD & Structured Drawing	X-CAD 2000	£97.95
	X-CAD 3000	£254.95
	Art Expression	£144.95
	Expert Draw	£49.95
VIDEO SOFTWARE	Video Master	£52.95
	Scala 500	£74.95
	Scala Professional	£177.95
	Broadcast Titler 2	£244.95
MISCELLANEOUS SOFTWARE	GB Route Plus	£34.95
	Voyager	£54.95
	Turboprint Pro 2.0	£34.95
	Mavis Beacon... Teaches Typing	£22.95
	Workbench Upgrade Kit	£79.95
	Action Replay III	£57.95
	Softfaces 1 to 4	£39.95
	Softclips 1 to 4	£29.95
	Softwood Proper Grammar 2: Grammar checker, for ALL those Amiga Word Processors	£39.95
	TypeSmith	£119.95
	System-3E	£54.95
	Cashbook Combo	£59.95
	Personal Finance Manager	£29.95
	Arena Accounts	£94.95
ANIMATION AND GRAPHICS	Deluxe Paint 4.1	£64.95
	Deluxe Paint 4 (AGA)	£74.95
	3D Construction Kit	£36.95
	Adorage	£57.95
	Vista Pro 2 Limited Stocks	£29.95
	Vista Pro 3	£54.95
	Scenery Animator	£62.95
	Art Department Prof. V2.3	£149.95
	DCTV Composite Video	£349.95
	24-Bit Graphics System (PAL Version)	
	Morph Plus	£149.95
	Studio	£39.95
	Real 3D Classic	£74.95
	Real 3D 2	£364.95
	Brilliance	£147.95
	Pixel 3D Pro + Anim Workshop	149.95
AMIGA DEVELOPMENT AND UTILITIES SOFTWARE	Quarterback V5	£51.95
	Quarterback Tools	£47.95
	Quarterback Tools Deluxe (Advanced Disk/File Management)	£99.95
	PC Task - PC Emulator	£37.95
	Cross DOS	£34.95
	Easy Amos	£24.95
	Amos The Creator	£36.95
	Amos Compiler	£21.95
	Amos 3D	£25.95
	Amos Professional	£36.95
	Amos Professional Compiler	£24.95
	New SAS Lattice C V6	£239.95
	Devpac 3	£52.95
	Directory Opus V4	£49.95
	Can Do 2	£99.95
AMIGA GAMES	Phone for a massive choice of competitively priced entertainment software!!!	

AMIGA BOOK Shop

Amiga A1200 Insider Guide	£14.50
Amiga A600 Insider Guide	£14.50
Mastering Amiga Assembler	£21.95
Mastering Amiga Beginners	£18.50
Mastering Amiga C	£18.50
Mastering Amiga Workbench	£18.50
Mastering Amiga DOS Vol. 1	£19.50
Mastering Amiga DOS Vol. 2	£19.50
Mastering Amiga DOS Vol. 3	£23.50
Mastering Amiga AMOS	£18.50

ABACUS books also in stock please phone for prices!

ALL PRICES ARE INCLUSIVE OF VAT AT 17.5%

GOLD SERVICE

COMPARE OUR GOLD SERVICE

Before you choose from whom to purchase, please phone us. We are always happy to discuss your requirements and answer any queries you may have. And.. remember Harwoods have always provided THE BEST service in the industry...

FREE GOLD SERVICE: Any computer, monitor or printer requires service in the first year is collected FREE OF CHARGE Mainland only). Remember at Harwoods we charge no more fo GOLD service. The fastest turnaround possible is GUARANTEED b OWN SERVICE ENGINEERS. -Many items have In-Home Warrant

TECHNICAL SUPPORT: You will be given our Exclusive Tech Support Phone Number to call should you require any help or a on any aspect of the system you have purchased.

MINIMUM 12 MONTH HARDWARE WARRANTY: Items pro faulty within 30 days of purchase are replaced with NEW U unless otherwise stated. For the guarantee period, warranty se will be completely FREE OF CHARGE (some items are 2 yr warra

YOUR SYSTEM READY TO GO: All main hardware products c with mains plugs and leads - just connect up and use straight aw

How to contact us...

☎ **BY PHONE:** Phone our Order Hotline with your Ac Visa, Mastercard Switch or Lombard Creditcharge quoting number & expiry date (Most Dixons, Cu NASCR and other 'store' cards are Lombard Creditch and are happily accepted by us).

☒ **BY POST:** Make cheques, bankers building society draf postal orders payable to GORDON HARW COMPUTERS. (Personal/business cheques take 7day clear from day of receipt whereupon your order w despatched). Please send Name, Address, and importantly if possible, a Daytime Telephone Number with your order requirements. Please check you ordering from our latest advertisement before po (phone if you require confirmation). Please remember for example many September publications appear d August, etc., therefore prices you see may have cha (either up or down!).

✈ **EXPORT:** Most items are available at TAX FREE PRICE non UK residents and service personnel. Please conta for confirmation of export prices before ordering.

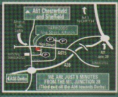
FREE DELIVERY: by Parcel Force, UK Mainland only, SPEEDY NEXT WORKING DAY COURIER SERVICE just £6.95 per major item for guaranteed delivery (or £ for Saturday delivery). UK Mainland most reg (Despatch normally on day of order or payment cleara

All listed prices are what YOU PAY, and there are NO HIDDEN EXT VAT and postage are included, and prices are correct at time of goin press (Pack details may vary from time to time). Offers and Services subject to availability and to being the latest advertised products, pack prices. Please note goods are not supplied on a trial basis. E&O

VISIT OUR SPACIOUS SHOWROOM:

Why not take a trip out to visit us and see our full advertised ra and more, available at the SAME COMPETITIVE PRICES. (P see opening times! There's plenty of FREE parking nearby too!

How to find us...


A61 Chesterfield and Sheffield
M1 NORTH
HARWOODS New Street, Alfreton
High Street
A615
A38
M1 Jctn. 28
A38 Derby
WE ARE JUST 5 MINUTES FROM THE M1, JUNCTION 28 (Third exit off the A38 towards Derby)

BY RAIL - ALFRETON MAINLINE STATION IS CONVENIENTLY RIGHT IN OUR TOWN

OPENING TIMES
9.00 until 5.00 Monday to Saturday
Wednesdays - 9.00 until 1.00

GORDON HARWOOD Computers

Enquiries & Order Line:

0773 83678

Finance Facilities Available*

*Please phone us for information, your personal applicatio pack and full written details.

GORDON HARWOOD COMPUTER
DEPARTMENT cua/H11, NEW STREE
ALFRETON, DERBYSHIRE. DE5 7B
TEL: 0773 836781 FAX: 0773 8310

The Closer you look, The Better we lo

Virgin INTERACTIVE ENTERTAINMENT

Big name games seem to fall in their lap. Is it luck or good business? Jon Sloan tries to regain his Virginity.

MORTAL KOMBAT

PROBE SOFTWARE

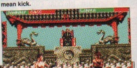
One major game license that Virgin recently acquired was for the coin-op conversion of *Mortal Kombat*. It's not surprising that they quickly snapped it up when you consider the stir it's been causing. It makes *Streetfighter 2* look like a walk in the park and has taken the arcade world by storm. With huge digitised fighters delivering gory death blows to their opponents, there have been many calls to ban it.

Even so it's almost impossible these days to walk into an arcade and not see one of these machines somewhere. Indeed, almost every form of media that deals with games is featuring *Mortal* somewhere soon. The promotional hype recently reached fever pitch when the real life 'characters' flew over to the UK to take part in a Gamesmaster challenge. But is all the publicity worth it?

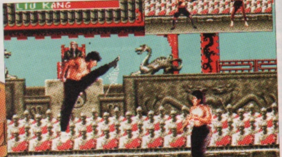
BEDTIME STORY

The game carries the usual completely bogus storyline about a group of disparate fighting dudes who've got together for various reasons and are travelling off to some mysterious oriental island to take part in a martial arts tournament. [*Hmm... anyone seen Enter the Dragon? – Ed.*].

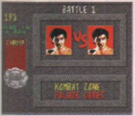
Anyway, the tournament is run by Shang Tsung, an ageless ex-champion who feeds on the souls of the defeated fighters and is protected by the new champion Goro, an eight foot tall, four-armed alien prince. To progress through the tournament you've got to face all the other fighters in best-of-three-rounds matches. To make it tougher, if you manage to best them all you move on to face clones of yourself, as well as endurance rounds where you fight two opponents consecutively with only one energy bar for yourself.



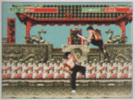
Johnny Cage and Sonya prepare to fight. Don't take it easy on her 'cos she packs a mean kick.



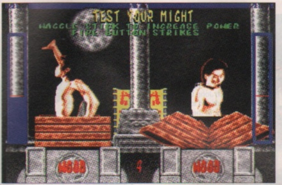
At the moment, the sprite that's working the best is Liu Kang. Here he's in a mirror match with himself!



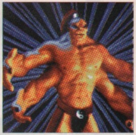
When you win a battle this screen comes up. The digitised faces are shown at their best here.



All of the characters will be able to perform the moves they do in the arcade, including the secret ones.



After every few matches you're given a chance to increase your points by attempting to break inanimate objects. As Bruce Lee once said, 'Boards don't hit back!'



The current Tournament Champion is Goro. This alien half-dragon creature has more moves than a snake. The only way to beat him is to keep away and use your missile attacks.

You're given the choice of playing one of seven competitors who're almost as weird as Shang Tsung. There's Liu Kang, a Shaolin monk; Sub-Zero, a Ninja assassin; Kano, the cyborg leader of a criminal gang; Rayden, an immortal thunder god; Johnny Cage, a martial arts movie star; Scorpion, a reincarnated ghost; and finally, Sonya, a member of an elite army unit who're chasing Kano.

These guys all have the usual range of fantastic moves as well as at least two special ones. For instance, Sub-Zero can shoot bolts of ice to freeze opponents ready for a free punch; whereas Johnny Cage has a Shadow Kick which moves him at super speed.

RE-VERSIONARY

Most versions of *Mortal* are being coded by Probe Software, the development team responsible for such hits as *Alien 3, Outrun Europa and Mutant Turtles.* Of course, the only real question on everyone's lips is, will the Amiga version be as good as the arcade machine? The head of Probe, Fergus McGovern, is fairly confident that *Mortal* fans will not be disappointed by their efforts. "It's going to be the best copy of the coin-op that the Amiga's technology can handle," he said. To back this claim up he pointed out that Midway, the owners of the original, have helped them tremendously providing not only all the original code but also DAT tapes containing all the sound effects and speech, as well as the original footage of the fighters before it was digitised. This enabled Probe to tailor the digitising of the characters to each individual system. "Since we're using the arcade source code, all the scoring, hit zones of the players and artificial intelligence of the computer-controlled characters is exactly the same. In addition, all the blood splatters and death moves will be included – the Amiga version will be exactly the same as the Mega Drive one."

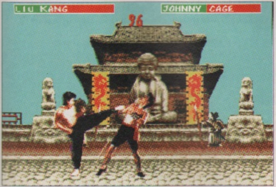
Like *Streetfighter* the coin-op version of *Mortal* has a large number of buttons, seven to be precise. How will Probe manage to convert all these input devices into an Amiga joystick with just one fire button? "We're still looking at ways to get around this but we'll certainly keep away from the distance-sensitive method used in the *Streetfighter* conversion. At the moment, we're using a combination of keyboard and joystick so that we can keep all the original moves and let the player decide when he wants to use them.

However, we're looking at a method to utilise all the moves from the joystick. What will probably happen is that you hold the firebutton down and move the joystick rapidly in a set pattern to execute a certain move" Fergus added.

There's still a fair amount of work to do on the Amiga version but now the playability is shaping up a treat. The characters are pretty nippy and all the original moves are in place. 'If you've played the Mega Drive version then you'll know what this one will be like 'cos they are going to be an exact match' Fergus continued. Judging by what we've seen so far there's no reason to doubt him. In fact, we like it so much that we've secured a coverdisk demo that'll be winging its way to you shortly.

COMIC CAPERS

As part of the promotional hot air surrounding the game, Midway, the coin-op manufacturers, have produced a collector's comic that goes into greater detail about the motives of each fighter. Whether it will expand into a regular series is unclear. I mean how many different stories could they run? Oh look, another story about the time Raiden beat up Liu Kang!

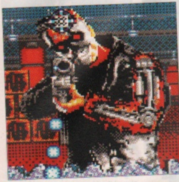


Oh dear, its seems Johnny didn't pick his guard up quick enough. I guess he won't be doing many photo shoots from now on.

» TERMINATOR 2 – THE ARCADE GAME

WIP

PROBE SOFTWARE



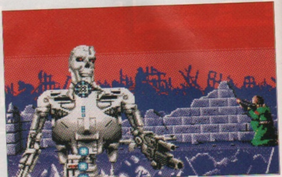
The second major license that Probe are working on for Virgin is the Amiga conversion of the excellent *Terminator Arcade Game*. This is far removed from Ocean's film license tie-in which, by any standards, was abysmal. The coin-op is a sort of *Operation Wolf*-type game where you play Arnie 'the good Terminator' and use a moulded plastic Uzi to blast anything that comes at you. Of course, the Amiga game won't come with its own toy gun, you'll just have to make do with a simple on-screen target.

The aim of the game is to travel back in time from the future to protect a lad called John Connor who is destined to become the leader of the human resistance movement.

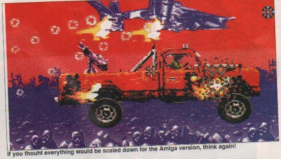
Apparently, in 1996, SkyNet, a computer controlling America's nuclear missiles, becomes self aware and decides to get rid of all the humans. In the ensuing holocaust one man rises up to resist this destruction. That man is John Connor. After failing to destroy him in the future, SkyNet send a liquid metal killer robot back to 1992 to kill him. It's your job to protect John, destroy the T-1000, then travel back to the future to blow up SkyNet. Sounds simple? Well, SkyNet knows what you're up to and is throwing everything it has against you, including other Terminators, and deadly Hunter/Killer machines. If that isn't tough enough you've also got to protect other members of the resistance when you see them so you can't just blast away without a care in the world.

To give you a little help there are loads of supply crates sitting around. These often contain useful bits of kit like rocket launchers and plasma pulse generators. These can be bolted on to your gun and will give you extra firepower for a limited period.

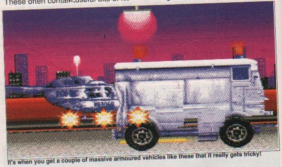
The game is still in the early stages of production at Probe but we managed to nab a few screenshots for you. We'll bring you a fuller Work in Progress soon. CU



Just like the coin-op, you're made to face countless androids and humans right from the start.



If you thouht everything would be scaled down for the Amiga version, think again!



It's when you get a couple of massive armoured vehicles like these that it really gets tricky!

PROFILES

Few games companies can claim the same level of success that Virgin have had in recent years. They have consistently crossed the boundaries of gaming excellence producing some of the top games ever seen on any format.

What is the secret of their success? Is it the money, the name, or the ideas? In an effort to fathom their secrets our roving reporter spoke to VIE's Marketing Director, Sean Brennan, about the way they operate.

GETTING AN ANGLE

With their top-quality products, VIE have established an enviable position within the games industry. I wondered how much of that was due to them starting out with a very famous person's backing. "Having the strength of a large group behind you doesn't necessarily guarantee success. You can still screw it up" Sean (VIE's Marketing Director) pointed out. "But it does mean that you have the resources at your fingertips.

For example, if someone approaches you with a knock-down proposal you don't have an immediate panic about cash flow or whether there's sufficient budget to cover a major purchase. That said, the name and its image help in attracting developers, too.'

It would be also easy to accuse VIE of milking its ties with other parts of the organisation but, in reality, all the Virgin companies work on an arm's length basis with no one part obtaining an advantage over an external firm. This means that no matter how hard VIE beg, Virgin Retail will not give them favourable shelf or display positions just »

SIM LIFE™

THE GENETIC PLAYGROUND

THERE ARE TWO VERSIONS AVAILABLE: STANDARD - FOR ALL AMIGAS. ENHANCED - FOR A1200/A4000 ONLY

As you take the SimLife disks out of their pack you hear strange celestial music. Load them up and a deep rumbling sound is heard in the distance; the cosmos twitches. You are about to become a major player in the game of life.

Until now you thought gene splicing involved ripped trousers... a balanced ecosystem was a new washing powder - and that genomes lived at the bottom of the garden? Now you'll find out different.

In SimLife, take the challenge of our inbuilt scenarios or create your own unique world where your imagination can run riot. Design plants and animals, then decide how they act, how (even who) they eat - even how they reproduce!

Now watch this world evolve in front of your very eyes, as a completely new environment takes shape under your command. Will you be responsible for producing a tropical paradise, an arctic wasteland - or a planet inhabited by even stranger creatures than in this one?

More than a game. It's evolutionary.

MINDSCAPE A1200 ENHANCED

ALSO AVAILABLE

"Superbly designed, flawlessly executed..."
93% CU Amiga

CU AMIGA SUPER STAR

"It is an entertaining piece of software and has years of enjoyment..."
85% MacFormat

"Intriguing, very deep and absorbing, easy to use, great fun..."
85% PC Home

PUBLISHED BY

MAXIS

Distributed by

MINDSCAPE

Mindscape International,
Priority House, Charles Avenue,
Maltings Park, Burgess Hill,
West Sussex RH15 9PQ
Tel: 0444 246333
Fax: 0444 248996

CUT OUT THIS COUPON AND POST IT IN AN ENVELOPE TO: 'FREEPOST' 'SIMLIFE' MINDSCAPE INTERNATIONAL LTD, PRIORITY HOUSE, CHARLES AVENUE, BURGESS HILL, WEST SUSSEX RH15 9BR

YES, TELL ME MORE ABOUT 'SIMLIFE'.

NAME ______

ADDRESS ______

POSTCODE ______

TEL ______

Another great offer from a manufacturer you can trust

CUMANA

CAX 354 DISK DRIVE £49.95*

*Price includes VAT and delivery

- High quality
- Renowned and proven reliability
- Styled plastic case
- Low power consumption
- Throughport facility for addition of further drives
- Suits any Amiga

Order with Confidence

- ✓ All Cumana products carry our 30 day money back guarantee
- ✓ All products carry our 12 month warranty
- ✓ All inclusive price

Cumana reserve the right to increase the price at any time. This offer is subject to availability.

NAME ______________________ **ADDRESS** ______________________

POSTCODE ______________________ **TELEPHONE NO.** ______________________

I would like to order .... CAX354 Disk Drive(s) at £49.95 each

Please debit my ACCESS/VISA card (please delete);

Number ______________________ Expiry date of card ____/____

Signature ______________________

Cheques should be made payable to Cumana Limited.
Orders may be placed by telephone – 0483 503121, or by fax – 0483 451371, or sent to – Cumana CAX 354 Offer,
Pines Trading Estate, Broad Street, Guildford, Surrey GU3 3BH.

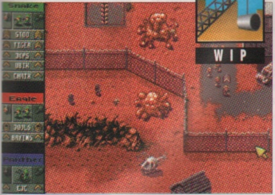
VISA

Manufacturers of quality products since 1979

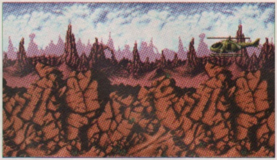
CANNON FODDER

SENSIBLE SOFTWARE

WIP



Cannon Fodder allows you to split your team into different units each with their own objectives. Here the last team has taken over an anti-aircraft battery so they can have their own firework party.



With each new stage there'll be a shot of a 'copter flying in low to deposit its cargo of battle weary veterans.

Described as cross between *Lemmings*, *Mega-Lo-Mania* and *Paintball*, *Cannon Fodder* is the next major project from the Sensible boys.

The game's been in production since the early half of 1991 but was put to one side after work started so that other projects could be completed. It wasn't until May of this year that Virgin was signed up as publishers for the game.

As with many Sensible projects, *Cannon Fodder* is going to be laced with a fairly sick sense of humour. For instance, it'll keep score using a football type body count so that when three of the enemy are dead it will be flashed up as '3-0'!

When one of the team gets blown away you'll be treated to a screen showing graves, the better you've done the bigger the headstone will be.

This mix of satire and violence is bound to get some people pretty heated about the way such a serious subject is treated, but that is exactly what the Sensi boys are hoping for. Jon Hare, one of the Sensible team, says that 'Cannon Fodder's the game we've always wanted to write – it makes you realise just how senseless war is.'

WHY VIRGIN?

Sensible Software is a completely independent programming house. Normally, this can be difficult with developers struggling to find a publisher for each new game. However, Sensible produce some wonderful products so they are in the position of being able to pick and choose. They like to spread their licenses for games to various publishers and are currently working with Renegade as well as Virgin. So, why choose Virgin for *Cannon Fodder*?

"Why not?" said Jon. "It was quite simple really. We were looking for a publisher and Virgin seemed like a good bet. Although we hadn't really worked with them before everything's running smoothly. Tim Chaney, the UK boss, is quite straight to deal with. You know where you are with him."

BLOOD AND GUTS

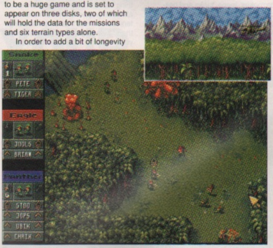
The game plays in a similiar way to *Syndicate* with the player using a mouse to control a team of small soldiers on a variety of missions. There are 24 missions with a total of 72 phases to complete, each will have a different objective such as rescuing hostages, or seeking out and destroying specific targets. It's going to be a huge game and is set to appear on three disks, two of which will hold the data for the missions and six terrain types alone.

In order to add a bit of longevity into gameplay there's a small role playing element to the squad of soldiers with each one having his own set of statistics.

This means that some are better at shooting others better at movement, etc. These stats will improve with every promotion the squaddies get when they successfully complete a mission.

You can't seem to have a war

»



The hardest thing about the jungle level is likely to be figuring out where the enemy is. Being so tiny and so well camouflaged is a definite plus for these soldiers.

OFILES PROFILES PROFILES PROFILES PROFILES PROFILES PROFIL

because they all work for the same boss. They'll only get good displays if their products live up to it. Most of the time they do.

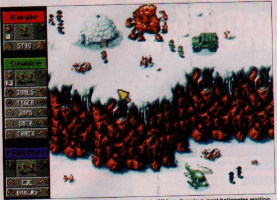
TOYING WITH SUCCESS

Perhaps the greatest example of the industry's confidence in Virgin is Hasbro's recent move to grab a 15% stake in VIE. The US toy giant is prepared to pay a staggering $25 million for such a tiny slice.

The deal will enable Virgin to finance future production in the cash intensive areas of console and CD development. More importantly, it's part of a longer term strategy on Virgin's part to keep them in the top five publishers. With the advent of CD we're seeing the possibility of entertainment products that utilise all the major formats, like high-quality sound, full motion video, and top-notch games.

When games publishers first cottoned on to CD it was hailed as a great leveller in that they would no longer be bound by tight programming constraints. In fact the opposite is true, to make a great game in the future companies are going to have development costs in excess of $1 million per game and that's before considering the set-up costs, like Silicon Graphics Workstations that cost £40,000 each. All this up-front spending is bound to squeeze the small players out – only financially secure corporations are going to have the muscle to make it. Sean believes that '...in five years time the only big players will be the ones that align themselves with major multi-national conglomerates. Corporations that have interests across all the entertainment fields, people like Sony, MCA Universal and Virgin.'

With that in mind $25 million seems like a small price to pay for what will eventually be a large part of the action!



Now, if you can figure out some way to get down that cliff face there's a neat helicopter waiting out there for you.

» these days without someone inventing new improved methods of killing each other. The same goes for *Cannon Fodder* with various weapons and vehicles lying around waiting for collection. As well as an unlimited supply of bullets, your guys will be able to use rockets, grenades, bazookas, jeeps, tanks and helicopters. Jools Sensible, the programmer, is particularly proud of some of the routines he's coded for the weapons. "When you use a homing missile launched from a 'copter it'll drop from underneath the craft and head for its target.

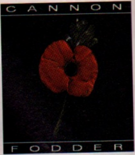
However, if there's any obstacles in the way it automatically charts a new route to avoid them. It can recognise fences, trees, buildings, tanks, etc. just like the cruise missiles used in the Gulf." To spice things up a bit the enemy also have all these weapons and to make matters worse there'll be better at using them! Things get even tougher when you encounter hostile civilians, such as the cowboys that shoot on sight or the jungle cannibals looking for lunch.

TARGET ACQUIRED

Cannon Fodder is shaping up to be one helluva game. With the praises for *Sensible Soccer* still ringing in their ears (over 200,000 copies sold on floppy format alone!) they want to continue their success with this one.

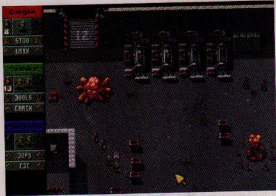
For such a small team of only six guys they have certainly made their mark on the games programming world. This is amazing considering that a few short years ago they were on the brink of disaster following the collapse of Mirrorsoft.

"When they crashed they owed us over £90,000, which was about a whole year's income for us then. Fortunately, we managed to recover some by getting our game licenses back and reassigning them. It was a difficult time but things have worked out okay since then. In fact, we've gone from being horrifically overdrawn to the point where we turned over £500,000 last year," Jon Hare confided. Let's hope that with their deal with Virgin they continue to go from success to success. CU



The poppy is traditionally the sign of remembrance for our war dead. Sensible use it here to good effect.

The inter-level sequence looks like Silkworm, although it's just for show, but pretty all the same.



LOST IN SERVICE
STOO
JOOLS
JOPS

Death meets the coder, designer and hippy.

HEROES IN VICTORY
BRIAN
TOM
PETE
WILF

Some more dead people; isn't it sad?

PROFILES PROFILES PROFILES PROFILES PROFILES PROFILES PRO

BUYING SOULS

Apart from their reputation within the industry, consumers have a warm feeling about Virgin. Sean attributes it to the time and money invested in development. Development is the most important part of the whole company.

"We're prepared to pay the going rate for hot properties. In addition, we're quite lucky in that we've have a fairly big internal development facility, another production office in Los Angeles, plus we own Westwood Studios, who've produced some incredible games. And in Europe we're working with excellent independent teams like Sensible, Probe and Revolution Software," he says.

Virgin have proved consistently that they're willing to put their money where their mouth is. They invested over $1 million in the recent *7th Guest* on CD-ROM.

It's easy to see that Virgin are going from strength to strength. With a combination of bright ideas, a sought-after name, and a secure financial foundation they are likely to remain one of the top games publishers for as long as there's a market for them to sell to.

JIGSAW PUZZLE

The Virgin Corporation is absolutely enormous and has interests in Airlines, Radio, Retail as well as games. So, how does Virgin Interactive Entertainment fit into all of this?

They're part of Virgin Communications which includes Virgin 1215 Radio, Virgin TV (post-production facilities) and Virgin Publishing (books). Other divisions include Voyager (travel and Virgin Atlantic Airlines) and Virgin Retail (megastores and game centres). Of course, it's all held together by Richard Branson himself.

3x3 EYES – PART TWO

YAKUMO and PAI (the last descendant of a mystic Triclop race) encounter eerie ceremonies and violent clashes as they struggle to regain their mortality. Their only hope is THE NINGEN: Statue of Humanity, but it soon becomes clear that they are not alone in the search.

3×3 EYES
PART TWO
18
MANGA
£10.99
SRP
18

REWIND YOUR MIND WITH MANGA

JUDGE

Judge is a sinister thriller in which the wrongful dead seek retribution via the ultimate justice system. In the spirit world there is only one law...the Law of Darkness.

ULTIMATE TEACHER
15
MANGA
£8.99
SRP

JUDGE
15
MANGA
£8.99
SRP

ULTIMATE TEACHER

Into the riot strewn chaos of Teioh High School crawls the seemingly invincible GANBACHI – a towering catastrophe of genetic engineering – who is determined to knock the rebellious students into shape. But, the crazy students have their own defence – the beautiful HINAKO and her 'Velvet Pussy' panties.

MANGA VIDEO

AVAILABLE AT VIRGIN, HMV,
WH SMITH, OUR PRICE, VIRGIN GAMES,
JOHN MENZIES, GAME LTD, FUTURE ZONE,
WOOLWORTH, FORBIDDEN PLANET,
AND ALL GOOD VIDEO AND COMIC SHOPS.

A Division of Manga Entertainment Limited.
An Island International Company

CALLERS WELCOME AT OUR BRANCHES   OPEN 9-5.30, MONDAY TO SATURDAY, (10-4.30 SUNDAYS ST ALBANS ONLY)

WARNING

Due to the exchange rate, or manufacturer's changes or due to current RAM shortage, some prices may alter, either up or down, during the several weeks between going to press and the end of the month of issue. We would ask that, where possible, prices be confirmed by telephone before ordering.

Hobbyte

COMPUTING
ESTABLISHED 9 YEARS

10 MARKET PLACE ST ALBANS
HERTS AL3 5DG TEL: (0727) 856005/841396
THE GALLERY ARNDALE CENTRE LUTON
BEDS LU1 2PG TEL: (0582) 457195/411281

HOW TO USE THIS AD

Exclusively from Hobbyte, you can choose your own Amiga and software combination and still benefit from the huge savings only available from package deals.
Want an A500 pack for small children? No problem!
A professional pack for music or programming? It's up to you!

WE WANT TO BEAT ALL PRICES!

CALL US!!

OLD AMIGA TRADE-IN

The best trade-in allowance, extra for peripherals and accessories. Trade in your old machine for a brand new A600/1200/4000/CD32 or even a PC.

After trade-in, equipment is checked and refurbished by our engineers and is then offered at bargain prices, complete with 3 months warranty.

A500s FROM £139
A1500s FROM £199

A600 SD/HD..........from 159
A3000s..........from 499
CDTV..........179
A590 20/40MB....129/159
HD's + Controllers..from 179
GVP HD8 40/52......209/229
XT/AT BBoard..........79/129

OTHER ACCESSORIES - PLEASE ASK.

CD32 CONSOLE
LIMITED STOCKS END AUGUST

CD32 SOFTWARE

15 to 20 titles specially written for the CD32 should be in stock by the time you read this, including Syndicate, Zool 2, Jurassic Park, Chaos Engine, Robocod, Diggers, many of which include a full CD music track alongside the game. About half of existing CDTV titles are compatible. CD32 will also play normal music CDs and CD+G discs

£285

Includes 2 free games and joyp

BEST PRICES
BEST RANGE FROM
HOBBYTE

COMING SOON....
Full Motion video add-on - for movies on C
Floppy Drive - SOON!!
CD32 for A1200 - no dates yet
If you would like updates on the latest in
it arrives, plus first option on initial sto
ask to be added to our priority customer

A500/600/CDTV

STARTER PACK
A Must for new users!
Microswitched joystick, "Get the Most from your Amiga" book, 10 Blank discs, 80 capacity lockable disc box, mouse mat, dust cover, Virus Killer.

A500+ and A600 come complete with mouse, modulator to connect to TV, or monitor lead as required, all cables, manuals, operating discs and utilities

	INCLUDED AS STANDARD	ALONE £	PLUS STARTER £	WARRANTY	EXTRAS
A500+ 1MB	-	179.99	194.99	12 months return to base	Extra 1MB £25
A500+ CARTOON CLASSICS	Captain Planet, Lemmings, The Simpsons, DPaint III*	194.99	209.99		
A600 SD 1MB	-	184.99	199.99		Extra 1MB £35 • 2Mb PCMCIA £109 • 4MB PCMCIA £169 • Romsharer £45
A600 SD WILD, WEIRD AND WICKED	Silly Putty, F1 Grand Prix, Pushover, Deluxe Paint III*, 700 clip art set	199.99	214.99	12 months at home	
A600 HD 20		259.99	274.99		
EPIC PACK PLUS 30	Epic, Rome, Myth, Trivial Pursuit, Amiga Text, Deluxe Paint III*, 700 clip art set	289.99	304.99		
40		324.99	339.99		
64		339.99	404.99		
85		389.99	404.99		
A600 HD 80	-	365.99	379.99	12 months return base	
120		415.99	429.99		
210		569.99	584.99		
CDTV MULTI MEDIA	Audio Discs/CD Player, Keyb'd, Fdrive, Mouse, Remote Controller, Caddy, Welcome Disc, Fish Disc	229.99	244.99		Brickette £45
CBM 1084 ST	Tilt and swivel + leads	179.99		1 year	PIP Monitor to TV Converter – £114
CBM 1940	Leads. Ideal for AGA	279.99		1 year	
Philips 8833 II	Leads. T & Swivel £10	189.99		1 year at home	
Star LC100C	Top Value 9 pin colour printer	149.99	159.99	1year	
Citizen 240C	24Pin colour plus FREE PEN PAL	259.99	269.99	2 year	

Return to base HD versions are SD units fitted with top quality 3rd party drives and come with install disc + full documentation. *DPIII needs 2MB for animation on HD models.

A4000/30 & 40

A4000/30: AGA Chip Set + 68030 processor, 68882 25/50 MHz co-processor option, 256,000 colours from 16.6M, scan doubling for flicker free display, Mouse, Amiga 3.5"/1.76 MB 3.5" drive, Hard Drive as below, Amiga DOS 3.0 system and utilities, **Gold Service on-site warranty**
A4000/40: As above, but featuring the blistering 68040 processor, with full floating point facilities.

TRADE IN AVAILABLE

HD SIZE MB	A4000/30 68882 FPU MHz	A4000/30 2+2MB STANDARD VERSION	A4000/30 2+4MB SUPER EXPANDABLE VERSION	A4000/40 2+4MB *
80	-	989	ADD £100	1889
	25	1099		
	50	1239		
120	-	1089	ADD £100	1969
	25	1199		
	50	1329		
160	-	1279		
214	-	1349		2089
240	-	1175	ADD £100	1969
	25	1299		
	50	1399		
340	-	1299		
	25	1419		
	50	1529		
540	-	1629		2679
	25	1749		
	50	1869		

2 + 4 MB version comes with 2MB chip RAM + one 4MB chip of fast RAM, for on-board expansion to 16MB. We do not fit two x 2MB chips of fast RAM, which gives on-board expansion of only 8MB.

EXTRAS: Extra 2MB for 2+2 versions £99 • Extra 4MB for 2+4 versions £159 • Microvitec Cubscan 1440 recommended £399.98 *.

A1200

FREE SLEEP WALKER + £10 DONATION TO COMIC RELIEF
(WHILE STOCKS LAST)

1200 2MB	285
1200 +20MB HD	379
1200 +60MB HD	439
1200 +80MB HD	489
1200 +120MB HD	519
1200 +207MB HD	589
Extra 4MB + clock fitted	ADD £180

**CBM APPROVED HARD DRIVES
1200s with hard drives include CBM approved drives fitted by CBM approved engineers, full legal installation/utility disc and documentation and come with CBM on-site warranty service.

FREE WITH ALL 1200s
NIGEL MANSELL AGA,
TROLLS AGA

OR FREE WITH 80MB &
120MB VERSIONS
PUBLISHER'S CHOICE
RRP £99.99
inc Kindwords - WP, Pagesetter - DTP, Artists Choice - Art Pack, Headline Font Pack
Limited - While Stocks Last

WITH ANY COMPUTER
ZOOL, STRIKER, PINBALL DREAMS & TRANSWRITE OR LEMMINGS, SIMPSONS, CAPTAIN PLANET, PLUS DP III & GFA BASIC
ADD £14.99

DON'T FORGET YOUR STARTER PACK!

NO OTHER DEALER CAN BEAT OUR CREDENTIALS

- Multi-million company with 9 years experience in Commodore product and here to stay
- Commodore trained staff are friendly and helpful and are parents, multimedia, educational, games, programming or technical specialists (usually more than one!)
- Open 9-6 pm Monday to Saturday and 10.00 am to 4.30 pm Sundays (St Albans only) for convenient shopping.
- Callers welcome for advice and demonstration at our 1600+ sq ft High St, Town Centre branches
- Same day despatch for most orders received by 5.30 pm; express am and Saturday services available
- Hardware carefully handled and delivered safely and reliably by caged, insured, top name courier service
- Pre-despatch testing on Amiga systems
- Free 30 day courier collection and delivery of NEW replacement.(except product with on-site maintenance)
- Hotline support and in-house engineers
- Upgrade and trade in offers to keep you up to date
- Exceptional after sales service
- BFPO and export welcome

NOT JUST ANOTHER MAIL ORDER COMPANY

For years a major player in Amiga Mail Order, Hobbyte also boast extensive expertise and experience in specification and support of multi machine and specialist systems. Hobbyte have been recommended and trained by Commodore and successfully won major orders and support contracts from London Boroughs, MOD, educational establishments etc. We are pleased to be placed on tender lists.
This expertise is available to all our customers.

HOBBYTE VALUE PACKS

Hobbyte are famous for their packs, allowing you to choose what you want, whilst still benefitting from package deal savings.
Remember, a bargain is only a bargain when you like what you get! So, if you aren't Wild, Weird or Wicked, Sleepwalker sends you to sleep, Space Ace leaves you feeeling
Paradroid does worse, if Basic basically isn't you, exercise your options and get real value for money from Hobbyte

TRAMPY'S AND NODDY'S PACK

Fun and educational for 2 to 11 years
(Some help may be required)

WITH AMIGA £45 | ALONE £59

Noddy's Playtime	8 magical learning games at 3 levels, PLUS Junior Art pack, keyboard overlay and map
OR Merlins Maths	6 National Curriculum oriented games, stage 2, 7 to 11
The Shoe People	6 games with Trampy and friends, 6 years and under.
OR Fun School 2	The "Fun School" suite have won every award going. 5/6 wonderful animated games. 3 to 11 years, specify age.
Fun School 3 or 4 OR ADI Jnr Reading OR Counting	The loveable extra terrestrial entertains 4 - 7 year olds and helps towards achieving National Curriculum levels 1, 2+ 3
Deluxe Paint II + 700 Clip Art pics	Pics inc. children, Fairytale + Legend characters, Sport, Cartoons, etc.
Hobbyte Primary Educational PD Pack	Containing 10 fun while you learn games
Hobbyte 30 Easy Children's Games Pack	Simple games, or those with very easy levels. Even the youngest will be able to use some of these

SERIOUS USER'S PACK

Interested in music, programming and graphics? Then this pack is for you!

WITH AMIGA £39 | ALONE £49

Easy Amos	THE programming language. Wonderful manual is simple and entertaining - ideal for complete novices
OR AMOS Professional ADD £10 for this option	97% AF rating - the second highest rating EVER given. Learn to professionally create your own games, utilities. Loads of sample progs included
Hobbyte AMOS PD Greats	Dozens of utilities, Protracker music modules, example programmes that no AMOS programmer would be without.
Deluxe Paint III, plus 700 Clip Art pics	Create your own designs to incorporate into your AMOS progs
MIDI Recording Studio & MIDI Interface	If you have a MIDI instrument, this is everything you need to compose and edit your music
OR AmigaVision	Powerful presentation and production tool

STARTER PACK

A must for new users! All you need in one value pack

WITH AMIGA £15 | ALONE £25

10 blank discs	Make working copies of Workbench and other original applications discs as soon as you get them
Virus Killer	Check discs regularly, especially if sharing with friends
Mouse mat	Helps prevent dirt/dust collecting on mouse contacts

Plus Microswitched Joystick, 80 cap. lockable disc box, Dust Cover

HOT BUG GAMES PACK

The top-selling Hobbyte Hot Lot pack now includes the ultimate joystick !!!

WITH AMIGA £44 | ALONE £59

"THE BUG"	The only joystick ever to be given a Gold rating 92% AF, positive single-handed action, small and lovely!
10 "Hot List" Games The GREATEST!	See listing to the right for current HOT LIST, or phone for latest changes. Children's games available.
80 Prog. Hobbyte PD Greats Pack II 10 blank discs, mouse mat, 80 capacity lockable disc box, plus dust cover	Includes top games like Battlecars, Star Trek, Computer Conflict, Megaball, dozens of arcade classics, board classics and 'shoot-em-ups', Utilities, Word Processor, Spreadsheet, Database + Desktop Publisher and the ultimate virus killers - a must for every Amiga owner!

HOME APPLICATION PACK

Perfect for all Home Office needs

WITH AMIGA £35 | ALONE £49

Virus Killer Disk,
80 Prog. Hobbyte PD Greats Pack - see 'Hottest Lot Pack'
The Works Platinum
Deluxe Paint III* with animation + 700 Clip Art pics
Digita Home Accounts
Any Two Hot List Titles

WP with UK spell chck, Thesaurus spreadsheet, 'Sideways' utility, database, graphics + comms module Keep track of credit card and bank accounts, budgets, etc

THE HOT LI

GREAT individ
packaged ga
BETTER THAN T
REST !!
(previous RRPs
£39.99 ea

Thunderbirds (7yrs+
F1 Grand Prix - 92%
Silly Putty - 90%+ lots of
Elf/Toki/Puzznic (counts
Paperboy II ‡
Hunt for Red October
Colossus Chess @
Challenge Golf
Battleships classic board
Graeme Souness Soc
Neighbours
Frankenstein ‡ @
Captain Planet
Silkworm Helicopter 9
Edd the Duck ‡
Stack Up ‡
Lemmings 92% AF
Round the Bend ‡
Continental Circus - 8 rac
92% AA@
World Cricket
Bart Simpson
Spiderman/Cptn Americ
Ice Hockey
Xenon - C+VG Game of the
Blade Warrior - A Power, AF
superb reviews
Toobin Rapid riding

‡ PARTICULARLY SUITAB
CHILDREN (MAY NEED
@ NOT A1200 COMPA
TITLES MAY VARY

*DPIII needs 2MB for animation on H

• AMIGA SPECIALISTS • STAR GOLD DEALER • CDTV CENTRE • PHILIPS APPOINTED DEALE

MONITORS/ACCESSORIES

UK 8833 MKII mon.+leads + on-site	189.99
swivel stand for 8833	9.99
1960 High res monitor	359.99
1940 dual sync .39 dpi AGA monitor + speakers	274.99
1942 dual sync .28 dpi AGA monitor + speakers	374.99

ROVITEC CUB-SCAN 1440 14" .28dp for 1200/4000, in- variable scan rates between 15KHz (default on boot-up) and 40 KHz all AGA modes in this range. With tilt and swivel stand and 3 year 399.99

Cub-scan .28dp for 1200/4000 as above, but 20"	1139.99
for A1200/Microvitec	12.99
9060M Multi-Sync for 1200/4000 models	595.00
1936 Hi-res SVGA .28dp inc. tilt & swivel	259.99
4FG Multi-Sync	544.99
TV tuner+remote with sub picture for monitors	113.99
Brilliance 2110 21"	POA
Flicker Fixer	99.90
Flicker Free Video 2-A500	184.99

FLOPPY DRIVES

3.5 external drive, daisychain + on/off	51.50
CAX 354 3.5 external drive, beige	56.50
with anti click + Blitz back up and virus protector	64.99
as above, Cyclone compatible	69.99
as PC 880B	124.99
A500 drive	39.99
density 1.76MB ext. drive for any Amiga (WB 2) + 10 discs	94.99
high density int 1.76MB 3.5" drive for 1500/2000	78.95
high density int 1.76MB 3.5" drive for 3000	78.95

HARD DRIVES/ ACCELERATORS

/2000

40MB	278.99
80MB	314.99
120MB	358.99
213MB	566.99
030 25MHZ 1MB	384.99
030 40MHZ 4MB	684.99
030 50MHZ 4MB	984.99
040 33MHZ 4MB	1284.99
for above	POA
SCSI 80MB HD	234.90

/4000

040 28MHZ (3000!)	349.99
controller for 4000	229.99
removable HD 88MB	658.99
for A4000	POA

40MB	479.00
80MB	579.00
120MB	679.99
213MB	749.99
	218.99
42MB	249.90
80MB	324.99
120MB	458.99
REFURBS AVAILABLE...FROM £209	
20MB	199.99
internal 20MB HD	184.99
internal 60MB HD	249.99

A500 Internal 80MB HD	279.99
A500 Internal 120MB HD	339.99
Trifecta SCSI 80MB HD	289.99
A570 for 2.04 1MB 500	139.99

A600/1200

GVP 85 MB HD 600/1200	274.99
GVP 1230 030 accel for 1200	284.90
GVP1230/40MHZ/4MB 68882 Co-Pro for 1200	479.99
M1230 XA 40MHz	269.99
M1230XA 40MHz 4MB	429.99
M1230 XA 50MHz 4MB	519.99
Microbotics VXL30 25MHz	219.99
VXL 30 40MHz	339.99
2MB Burst RAM for above	179.99

A600/1200 HD UPGRADES

	SELF FITTING* (on-site invalidated)	CBM APPROVED FITTING** (with on-site)
20MB	115	-
40MB	145	-
60MB	175	214
80/85MB	189	275
120/127MB	265	399
209MB	365	549
INTERNAL CLOCK		POA

*with cable & disc ADD £14.99 for Hobbyte fitting
**Including FREE courier collection & delivery

AMIGA 24 BIT HARDWARE

DCTV	376.99
GVP IV + VIU-S	965.99
GVP IV + VIU-CT	1255.99
Impact Vision 24	POA

HARLEQUIN 32 BIT FRAMEMAKER BOARD

Sets the standard by which broadcast quality output and true colour display is judged. Easily integrating with studio + office setups, it has been professionally used to storyboard + animation + commercial production in the world of TV.

- **16.7 million colour** photo realistic display • **real time 24 bit animation**
- **Optional Alpha Channel** - superimpose high quality graphics onto live signal, or smoothly blend paint images • **Optional Double Buffering** - 2, 24 bit displays instantly available

Unrivalled range of professional s/w support: **TV Paint** • 32 bit paint • **VLab** • real time 24 bit digitiser • **Caligari Broadcast** • 3D anim with virtual reality interface • **Sympatica II** single frame control system • **Art Dept Pro** • image processing inc mixing, scaling, time stretch • **Real 3D** V2 - 24bit modeller + others

H1500 1.5MB	£929	*H2000 Plus	£1479
H2000 2MB + Alpha	£999	*H4000 Plus	£1579
H3000 3MB +D/Buffer	£1099		
H4000 4MB + Alpha +D/Buffer	£1279	*Plus versions inc. Genlock, extra screen resolutions + modes, 4 Alpha Chanel + more	
Genlock	£199		

OPAL VISION

24 bit board v2+ Opal Paint, Opal Presents, Opal Hotkey, Opal AnimMATE	589.99
AS ABOVE, ALSO WITH IMAGINE SOFTWARE (Note- this version will only work with Opalvision)	£649.99

IF YOU HAVE PURCHASED OPALVISION, YOU MAY HAVE RECEIVED VOUCHERS AGAINST THE FOLLOWING NEW PRODUCTS., WHICH WILL BE ACCEPTED BY HOBBYTE IN PART PAYMENT

Video Processor for Opal Vision WITH VOUCHERS	647.99
Video Suite for Opal Vision WITH VOUCHERS	647.99
Scan Rate Converter for OpalVision WITH VOUCHERS	647.99
Retina 24 Bit graphics card + 1MB +VD Paint	847.99
Retina 24 bit graphics card + 1MB + VD Paint	339.00
Retina 24 bit graphics card + 2MB + VD Paint	395.00
Retina 24 bit graphics card + 4MB + VD Paint	489.00
V lab 24 bit real time digitiser 1200/600/500 external	334.99
V lab 24 bit real time digitiser 1500/3000/4000 internal	289.99
V Lab 4000/3000 internal SVHS	334.99

FOR SPECIALIST ADVICE PHONE JP ON 0727 856005
SEE SOFTWARE BELOW

EMULATION

G Gate 386sx 25MHz	386.99	386 Bridgeboard	199.99
GVP 286 for GVPII +530	146.99	486 Bridgeboard	299.99
GVP 40/4 for 1500	945.99	Emplant	245.90
AT Once	214.99	Emplant Deluxe	339.90

SCANNERS & DIGITISERS

Epson GT 6500, 600dpi 24 bit A4 inc. Scan s/w	779.00
Epson GT 8000, 800dpi 24 bit A4 inc. Scan s/w	1129.00
Power Hand Scanner, 400 dpi, 64 Greyscale, Powerscan software	88.99
Power Hand Scanner as above, V3 for 1200/4000	104.99
OCR software for Power Scanner	48.50
Power Colour Hand Scanner	219.49
Sharp JX 100 A6 Scanner + scanlab s/w up to 18 bit	469.99
Summa Sketch II A4 with s/w/A3 Tablet Digitiser	359.99/529.99

GENLOCKS/MODEMS

Rendale 8802 (1200 compat)	139.99	Video Pilot v330	1094.94
Rendale 8802 FMC	159.95	Rocgen+ 1200 compat	141.50
Rendale 8802 SVHS/8860	469.99	Rocgen Rockey	189.90
Hama Genlock S290	689.99	Supra 2400 Modem	78.95
GVP G-Lock	289.00	Supra Fax Modem	148.90

SUPRA 2400+ FAX/MODEM

WITH 9600 FAX, 2400 DATA FAX SOFTWARE, ATALK 3 COMMS S/W, MODEM LEADS & POWER SUPPLY **£148.99**

SUPRA 14440 FAX/MODEM

AS ABOVE, BUT UP TO 14,400 FAX/DATA **£279.00**

ACCESSORIES & DISCS

A500/600/1200 printer centre	28.99	A520 Modulator	29.99
A500/1200 control centre	34.90	Alien/Batman/T2 Joystick	10.99
A600 control centre	27.90	Bug Joystick	11.99
Brickette CDTV Joystick adapt.	39.99	CDTV Keyboard	54.99
10 Blank DS/DD discs in box	4.99	50 Blank DS/DD discs	17.99
10 Blank DS/HD discs	6.99	50 Blank DS/HD discs	27.99

EXPANSION

A500 512k Rom Exp+Clock	21.99	A500+ 2MB, exp. to 8MB	149.99
A500+ 1MB exp	29.99	PC1204 4MB exp clock	209.99

SPECIAL THIS MONTH

PC1204 4MB exp + 68882 25MHz 359.99

CBM A600 1MB exp + clock	35.99	PC1204 4MB exp + 68882 50MHz	269.99
A600/1200 2MB exp (card)	137.99	MBX 1200 +68881 14MHz	119.99
A600/1200 4MB exp (card)	169.99	MBX 1200 4MB+68881 14MHz	278.90
CDTV 1MB exp + Super Agnus	157.99	MBX 1200 4MB+68882 25MHz	358.90
A500 Rom Sharer 1.3	37.95	MBX 1200 4MB+68882 50MHz	428.90
A500 Rom Sharer 2.04	38.95	2MB version MBX boards above subtract £100	
A600 Rom Sharer + 1.3	49.95	CBM 2.1 upgrade kit	74.99
		A2065 Ethernet Card	229.95

Chip fitting and board upgrade available, by our qualified engineers ...... POA

PRINTERS

2YR WARRANTY WITH CITIZEN

	ALONE	WITH STARTER PACK
Citizen 120+D	108.99	ADD £12.99
Star LC20	116.99	
Citizen 90 mono*	144.49	
Citizen 90 colour*	159.49	
Star LC 100 9 pin col.	149.99	
Star LC200 col	184.99	
Star LC 24-20 II	218.49	
Star LC 24-100 24 pin	173.49	
Star LC 24-200	209.99	
Panasonic KXP 2123 col.	229.99	
Star LC 24-200 col	248.49	
Citizen 124D	176.99	
Epson LQ 100	179.99	
Epson LQ 570	259.90	
Epson LQ 870	469.90	
Epson LQ 1170	569.90	
Citizen S200 24*	184.99	
Citizen S200 24 col*	214.99	
Citizen S240*	249.99	
Citizen S240C col*	269.99	
Citizen 240 and 240C with Pen Pal, RRP	£49.99	
Ends 30th September		
Epson Stylus 800	294.90	
Citizen S24x col*	325.90	

All HP Inkjets with 3yr RTB warranty

	ALONE	WITH STARTER PACK
UNBELIEVABLE INKJET PRICES!!		ADD £12.99
HP Deskjet 510	269.90	
HP Deskjet 500col§	319.99	
HP Deskjet 550C§	629.99	
HP Paintjet§	519.99	
HP Deskjet 1200C	1349.90	
Canon BJ10SX Portable	219.90	
Canon BJ 200	319.90	
Canon BJ 230 A3	369.99	
Canon BJ 330 A3	469.99	
Canon BJ 300	389.99	
Star SJ 48	198.99	
SUMMER SAVER - LOWEST PRICE LASER QUALITY		
OKI OL 400e LASER	529.90	
CITIZEN LASER 6000	POA	
Panasonic KXP 4410 Laser 5ppm	544.95	
Star LS 5 laser	616.95	
HP Laserjet 4L	619.90	
Star LS Sex 5ppm 2 bin	729.90	
Sharp JX 9500 9ppm	599.50	

Optional 1yr on-site Diamond Service Next day response

HP Deskjet 510	64.99
HP Deskjet 500c,550c Paintjet 1200c	79.99

§Studio driver/Utility (WB 2 & above) highly recommended ADD £39.95

STARTER PACK: 500 Sheets A4 paper, Amiga to printer lead, Universal Printer Stand & Driver

* with Print Manager

SOFTWARE

APHICS/CAD

4D	213.99
Vision	17.90
xpression AGA	134.90
Dept. Pro 2.3A	134.90
Pro Prof Conversion	48.99
llance	143.90
igari 24	234.49
igari Broadcast 3	396.90
Morph	29.99
Paint IV	53.99
Paint AGA	62.99
Animation	56.90
Suns	49.49
ence	44.50
Draw	39.90
llery	39.49
ge FX	179.99
gine v2	149.99
ge Master AGA	139.90
CAD Plus	63.99

RPHING
your friends with the -of-the- moment.

Morph +, top of the range at £138.99, morph at (RRP 49.99)

Personal Paint AGA	44.95
3D Pro	119.95
Draw 3	99.99
Draw 4 AGA	POA
3D Classic	78.90
3D v2	394.90
500 HVT	64.49

CIAL
PRO 1.13 ...... £99.99
PRICEWAS 73.50

MM200	274.99
Anim.4D	198.99
ctra Colour	57.99

MPATICA II
your animations slow down time? SII will turn them into smooth 25 frames/sec masterpieces. Also 24 bit Rotoscope video is frame accurately digitised, modified + re-recorded - inc deck controller h/ware 329.99
Software only 189.99

Take 2	36.90
TV Paint 24	679.00
TV Paint Junior	179.99
Vista Pro 3	49.99
Vista Makepath	24.99
X CAD 2000	89.50
X CAD 3000	245.99

VIDEO PROD/ TITLING

A Video + TV Paint V2	588.90
Adorage	48.50
AmigaVision	17.90
Broadcast Titler II	173.90
NEW-Broadcast Titler AGA Super High res	239.90
Broad T Font Enhancer	POA
Broad T Font Pack	POA
Deluxe Photolab	51.49
imagemaster	159.99

Montage 24 AGA -titling + graphics for Opal Vision and Impact Vision ...... POA

Morph+	138.99
Pro Video Plus	137.99
Scenery Anim 4	£54.99
Scroller	59.99
TV Record	189.99
TV Show Pro	51.39
TV Text Pro	79.50
Video Studio 3	115.95
Video Director	123.99
Video Effects 3D	POA
Video Master	49.49
Vidi Amiga 12 V2	74.50

SUMMER VIDI OFFER -
Vidi Amiga 12 with Megamix Master £97.90

Vidi 12 Real Time	134.99
Vidi 24 Real Time	224.90

Video Timelapse VTL - creates stunning timelapse sequences - flowers opening, clouds, with sophisticated light/ motion etc., record trigger inc. deck controller h/ware 329.90
Software only 189.99

EDUCATIONAL

Any Fun School 3 or4	15.99
Any ADI	16.99
Merlin's Maths	16.99
Paint & Create	16.99
Spelling Fair	16.99

See also software packs

UTILITIES/LANGUAGES

AMAX II Plus	249.99
Ami back	39.90
Ami back Tools	39.39
Amos 3D	21.49
Amos the Creator	30.95
Amos Compiler	19.49
Amos Prof.	32.99
Amos Prof. Compiler	24.99
Easy Amos	22.49
Blitz Basic 2	54.95
CanDo 2.5	93.50
Cross Dos v5	29.75
CygnusEd Pro 3.5	69.75
Directory Opus 4	47.49
Disk Master II	43.75
GB Route +	32.99
GFA Basic	8.99
Gigamem	47.50
SAS/Lattice C	255.99
Quarter back	39.49
Quarter back Tools	43.99
Quarter back Tools Deluxe	59.99
True Print 24	47.90

VIDEO TAPE BACKUP UTILITY
So much faster and easier than floppies, use your VHS video to backup upto 120MB onto one 3 hour tape
£57.50

Xcopy Pro	34.95

APPLICATION

Arena Accounts	82.50
Excellence 3	89.90
Final Copy V2	74.99
Kind Words III	32.99
Maxiplan Plus v4	34.50
Mini Office	37.49
Pagestream 2.2	57.99

AF GOLD WINNER

Pagesetter 3 AGA	42.49
Pen Pal 1.4	34.50
Pers Finance Man +	29.50

Professional Page 4.1 AGA
RATED as the current top DTP package by the independent magazines, 94% AF 119.49

SPECIAL THIS MONTH
ProPage 4 and ProDraw 3 - professional illustrator's structured drawing package - Both for Only £159.99

Protext 5.5	POA
Publisher	32.99
Saxon Publisher	177.95
Superbase Personal 4	104.90
Superbase Pro 4	197.99
Typesmith	POA
Wordsworth AGA	72.90
Works Platinum	38.99

MUSIC

AD 10 12 Studio 16 Sampler	349.95
Audio Engineer +2	149.49
Audio Master 4	41.49
Bars & Pipes 2	239.99
Clarity Sampler	104.99
Deluxe Music Const II	POA
GVP DSS	38.99
Midi Interface	19.95
Miracle K'board/Tutor	277.99
Rombo Megamix Mstr	27.99
(see offer with Vidi 12)	
Stereo Master	26.99
Superjam	68.50

LEISURE TOP SELLERS

A Train	23.49
AV8B Harrier Assault	27.49
Battle Chess	14.99
Blade of Destiny	24.49
B17 Flying Fortress	22.99
Campaign	22.99
Championship Manager	16.49
Chaos Engine	16.49
Epic	*9.99
F1 Grand Prix	24.99
Flashback	21.49
Gunship 2000	24.99
History Line	21.69
Indiana Jones	23.99
Lemmings 2	18.90
Monkey Island II	23.99
Nigel Mansell AGA	21.99
Putty	*12.99
Robocod AGA	15.69
Sensible Soccer	15.95
Sleepwalker	20.90
Sleepwalker 2MB	*9.99
StreetfighterII	17.49
THUNDERBIRDS!!	12.99
Trivial Pursuit	*9.99
Wing Commander	19.49
Yo! Joe!	
Zool	15.99

*Price applies only with Amiga hardware purchase

CD DISCS

All CDTV titles 15% off RRP.

Pandora	£479
2,000 Clip Art & 99 Sounds	
CD32 Discs	Phone

NO DEPOSIT CREDIT AVAILABLE (subject to status), 29.8% APR, written details on application. All major debit cards accepted, no surcharges.

NOTE
SEE WARNING TOP LH PAGE

ORDERING:

TELESALES NO: 0727 856005 FAX: 0727 834944

Same day despatch for debit or credit card orders placed before 5pm subject to availability. Alternatively send cheque, postal order, bankers draft or official order (PLCs, Education and Government bodies only) to; Dept. CUA, Hobbyte Computer Centre, 10 Market Place, St. Albans, Herts AL3 5DG. Please allow 7 working days for cheque clearance. Subject to availability, despatch is normally within 24 hours of receipt of cleared payment. Prices are correct at time of going to press, however, we are sometimes forced to change them, either up or down. Please check before ordering. Additional services and different packages may be offered in our showrooms, and prices may vary from Mail Order prices. Personal callers are asked to quote this ad to ensure Mail Order packages are offered.

DELIVERY CHARGES:	UK MAINLAND (NOT HIGHLANDS)
Small consumables & software items	Despatched by post, please check charges when ordering
Other items, except lasers	Next day courier service, £10 per box
Offshore and Highlands	Please enquire
IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES:	
Saturday deliveries	Normal rate plus £15
Am next day	Normal rate plus £8

NO DEPOSIT CREDIT FACILITIES

Credit terms at 29.8% APR (variable) can be arranged for purchases over £150, subject to status. Competitive leasing schemes are also available for businesses, including sole traders and partnerships. Just telephone for written details and application form.

• HP AUTHORISED DEALER • CITIZEN DEALER PLUS • Amiga prices, except where stated are inc. VAT. E&OE

TELE-ORDER (0727) 856005

INTERACTIVISION SPECIAL OFFERS

OFFER ONE INTERWORD MANUAL

ONLY £7.99

Now that you've got to grips with *InterWord* on this month's coverdisk, you've doubtless discovered what a top-notch program it is. Of course we could go on for page after page and still not cover every feature and function of this fine word processor – but fortunately somebody else has already done it. To get the absolute maximum benefit from this month's coverdisk giveaway, why not purchase the original program's manual at the special price of only £7.99?

The 54-page tome is written for both beginners and more experienced users alike, with chapters giving a general introduction to word processing and ones that cover the more advanced features of the program including line-spacing, palette options, and preferences. You will find that *InterWord* is easily configured to work the way you want it to, and this manual will show you how to set up the software for your particular needs.

The manual gives full details on how to use your printer with *InterWord* and even goes as far as letting you define new printer drivers using only your printer manual for reference.

The manual also explains hard disk installation and gives a full breakdown of *InterWord's* comprehensive menu system. It is really an invaluable aid to producing professional-looking letters and documents.

There's no time to waste – to get the most from your super coverdisk, fill out the coupon below and return it without delay!

OFFER TWO INTEROFFICE ONLY £29.99

(OR £19.99 FOR INDIVIDUAL PROGRAMS)

InterOffice is a completely integrated software package – it comprises three programs, all of which are geared to squeezing the last drop of power out of your Amiga (and your software budget). We've put together an amazing deal for CU Amiga readers so that you can either buy the complete package at a rock bottom price, or individually purchase programs at a substantial discount.

InterOffice comes equipped with:

• INTERBASE

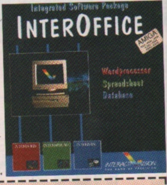
Whether you want a catalogue of your CD collection or an indexed list of all English speaking contacts on Osaka, the answer has to be *InterBase*. When CU AMIGA reviewed this versatile database a couple of years ago, we said at the time that 'it's a high quality database system and it seems that flexibility and reliability have been given the highest priority'. A full screen interface allows flexible construction of layouts to make this package not only extremely powerful, but also easy to use. All the search and filter functions you would expect from a professional package are present in this multitasking relational database.

• INTERSPREAD

If you need help in reconstructing a vast financial empire or just want to budget your pocket money, *InterSpread* is probably the package for you. Why bother working out how much you owe the loan-sharks with a pencil and paper when over 60 mathematical functions are at your command in a truly gargantuan program which can handle worksheets up to 3000 by 10,000 cells. To ease repetitive tasks there is an extensive macro utility and your results can be displayed on screen in virtually any graph format you could imagine. With *InterSpread* you need never fear your bank manager again.

• INTERWORD

We're not suggesting that you cough up the readies for this one, as we've just given it away free on this month's coverdisk, but you will get the manual thrown in for free if you opt to buy the complete InterOffice program. Are we good to you or what?!



Please post to: Interactivision Offers, Kompart UK, Guildford House, 20 Guildford Road, St. Albans, Herts AL1 5JY

PLEASE SEND ME:

☐ INTERWORD MANUAL @ £7.99
☐ INTERSPREAD @ £19.99
☐ INTEROFFICE @ £29.99
☐ INTERBASE @ £19.99

I enclose a cheque for £ , made payable to Kompart UK. Please add £1.50 for postage and packing.
ACCESS/VISA card no.:..EXPIRY DATE...
Name on credit card: ....
Please supply credit card holder's address if different from the address above.
Signature: ....
NAME...
ADDRESS.. POST CODE............................
..

STAR TREK
25TH ANNIVERSARY

Going boldly where no cliche has gone before, Tony Dillon warps onto the bridge of the Starship Enterprise for their latest intergalactic adventure.

CU AMIGA SCREEN STAR

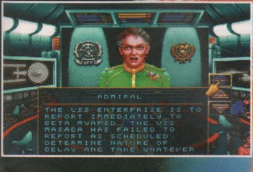
It looks like the Enterprise took a couple of wrong turnings before it hit the Amiga. It's been almost two years since the TV series celebrated its 25th anniversary, so this PC conversion is a little late in hitting our screens. Even worse, it's an A1200-only game that needs to be installed on a hard drive before you can start to boldly go where no man has gone before. That rather cuts down the potential sales of the product, but what's been sacrificed financially has been worthwhile, as the Amiga version is a faithful recreation of the PC original.

Star Trek is a sprawling masterpiece of game design, a product that follows the original TV show so closely that anyone who has ever watched an episode will feel immediately at home with this computer version. The camp atmosphere of the show, plus the cheap'n'cheerful humour that's prevailant throughout, has been successfully incorporated into the game, which should appeal to both Trekkies and adventure game players alike.

ITS FIVE YEAR MISSION

If you haven't guessed, *Star Trek* the game is a graphic adventure in the *Monkey Island/Curse Of Enchantia* mould, with a bit of space combat thrown in for good measure. You control the crew of the USS Enterprise through seven daring missions, where they must use what little resources the designers have given them to solve some of the toughest puzzles I've seen (even if some of them are slightly illogical, captain!). None of the usual 'Get the green gem and give it to the pixie' puzzles here. This is a game, with phasers, Klingons and more deadly alien monsters than you could shake an Elasi pirate's stick at. »

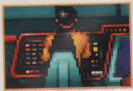
On your best behaviour you slobs, it's the big cheese from Starfleet and he's not happy.



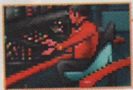
ADMIRAL

THE USS ENTERPRISE IS TO
REPORT IMMEDIATELY TO
BETA MYAMID. THE USS
MASADA HAS FAILED TO
REPORT AS SCHEDULED.
DETERMINE NATURE OF
DELAY AND TAKE WHATEVER

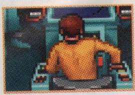
»



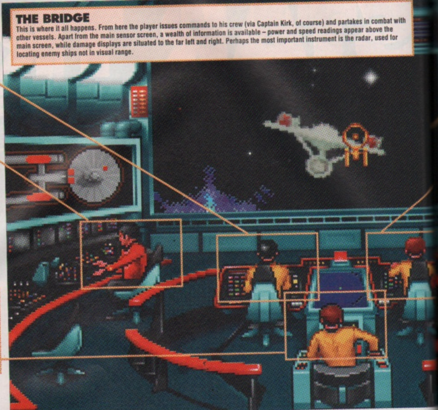
Mister Sulu has the important job of controlling deflector shields, and is also responsible for putting the Enterprise in orbit around planets – transporters only work when in orbit due to their limited range.



Scoty's job is to control damage to the Enterprise during combat. He automatically repairs systems as they are hit, although the player can select specific areas for priority repairs. There's also an emergency power reserve for use in times of crisis.



By selecting Kirk, the player can review the Captain's Log (showing reports on previous missions), beam down to planets and other ships and perhaps most importantly – save the game at any time.



THE BRIDGE

This is where it all happens. From here the player issues commands to his crew (via Captain Kirk, of course) and partakes in combat with other vessels. Apart from the main sensor screen, a wealth of information is available – power and speed readings appear above the main screen, while damage displays are situated to the far left and right. Perhaps the most important instrument is the radar, used for locating enemy ships not in visual range.

STAR FACTS

Leonard McCoy may have been one of Starfleet's finest physicians, but he wasn't exactly equipped with state-of-the-art medical equipment. To save on costs, the show's special effects department had to utilise everyday objects and tart them up to look 'futuristic'. Take this with a pinch of salt if you want, but a couple of his instruments were salt and pepper pots – and it's pretty obvious too!

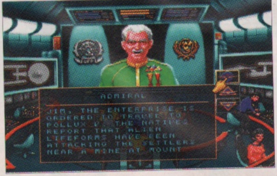
» Each mission takes the form of a separate episode, mirroring the structure of the original TV show. In fact, the game is so authentic that each adventure opens with the title music and credits, a fly past by the Enterprise and James Tiberius Kirk dictating his Captain's Log. Each installment is also given an authentic-sounding title, too, such as 'Demon World' or 'Love's Labor Jeopardised'. Like all classic *Star Trek* titles, it gives you a little clue as to what the episode is about, without actually giving too much away.

TO SEEK OUT NEW WORLDS

Each episode follows the same basic formula. You begin in space, talking about a previous encounter or participating in a deadly battle against Klingons, Romulans or Elasi pirates, when a message comes through from Starfleet informing you of an intergalactic incident and ordering you to travel to a particular location to find out what the hell's going on. A quick word with Mr. Chekov and you're there, from which point you have to beam down to the planet and figure out what's going on. After completing a sequence of puzzles, set over a number of screens, you are informed that you have finished the mission, and it's time to beam back up to the Enterprise for a bit of a chat and a last dose of deadpan humour.

Let's take a look at the first mission, 'Demon World', to see how it all fits together. It begins with some 3D combat in which the Enterprise is put through its paces. The action is viewed through the Enterprise's viewscreen, roughly a third of the play area. Despite the small area it's still highly effective, with meteorites and stars whizzing about, which helps give a real sense of speed as the Enterprise kicks in its warp engines. Once you've engaged an enemy and powered up your weapons system, the mouse buttons fire your photon torpedoes or phasers. Although photon torpedoes are more effective, they take a longer time to recharge than your phasers, so use them sparingly. To get in a

Oh god, not him again! Quick Sulu, man the photon torpedoes and lets give him what for, the miserable old far[*Snip - Ed*].

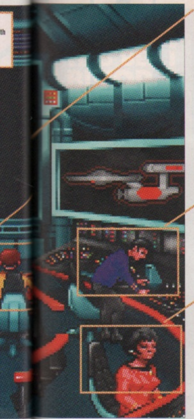


ADMIRAL

JIM, THE ENTERPRISE IS
ORDERED TO TRAVEL TO
POLLUX V. THE NATIVES
REPORT THAT ALIEN
LIFEFORMS HAVE BEEN
ATTACKING THE SETTLERS
NEAR A MINE AT MOUNT

STAR FACTS

With both *Star Trek: The Next Generation* and *Star Trek: Deep Space Nine* running on American TV, and the original *Star Trek* still in syndication, the show has become a major cultural phenomenon. It's possible to watch Star Trek in almost any language in almost any country in the world. You can buy stick-on Spock ears, costumes from the show, stationary, trading cards, comic books, the entire series on video, t-shirts, model kits, phasers and even battery-powered Tribbles! It's also become THE major money spinner for Paramount – in effect, a license to print money.



Chekov is a navigation and weapons man. The Enterprise travels by means of the player selecting a planet from his galactic map. It's also his job to arm phasers and torpedoes prior to combat.

Although he has no specific task, Spock can give Kirk expert advice on a particular subject or situation at all times. His logical insight can be invaluable. The player can also access Spock's computer directly, for raw data on a chosen topic.

Uhura handles communication to and from the Enterprise – all incoming messages go through her. She can hail ships and planets, as well as transmit messages and other data.

THE LANDING PARTY

When transporting to a planet or other starship, Captain Kirk will lead a landing party of himself, Mr. Spock, Dr. McCoy and a security officer. Be warned, situations can be dangerous. If Kirk, Spock or McCoy is killed by your actions, the game is over. Losing the security officer does not lose the game, however, and you can continue the mission. Constantly losing security officers is frowned on by Star Fleet Command!

Moving about is simply a case of pointing to the area of the floor that you want Captain Kirk to go to with the cursor and clicking the mouse. He will automatically go to the chosen spot. You only control Captain Kirk's movements directly, the other members of the landing party will move when circumstances require it.

By pressing the right mouse button or space bar, you can call up the Command Interface. From here you can talk to the other characters in the game. You may be given several options (a la Monkey Island), so be careful which ones you choose. What you say can and will affect the response you will receive from the person you're questioning. Don't forget to talk to Spock, McCoy and even the thicko security officer – they may have valuable advice to

good shot, it's best to match the speed of your adversary and fire slightly ahead of their predicted flight path. It's a tricky manoeuvre to pull off, but once you've mastered it you'll be able to blast the Klingon scum (or whoever) into so much space dust.

Luckily, the first mission only involves some mock combat, and when this is over Kirk receives a message from Starfleet informing him of trouble on Pollux V, where local inhabitants have sighted what looks like Demons from the Old Testament. Arriving at Pollux, the crew receive instructions to beam down from the small group of scientist monks who live there, so Kirk, Spock, McCoy and some poor sap in a red uniform set off to discover more. They arrive at a small collection of huts near a mountain where, the monks claim, the demons live. A man who is dying of a rare infection claims there's even a gate to hell located in the mountain. McCoy knows what's needed to cure the infection, but doesn't have the correct medicine. One of the monks explains that he can synthesise the drug using berries located near the entrance to a cave, but refuses to go there because of the demons. Kirk agrees to go, but finds his way barred by Klingons. Dispatching them with a bit of phaser play, he finds that they aren't real at all, but merely cleverly constructed robots. He takes a hand which has fallen in the fight, along with the berries and returns to the camp. The drug is created and administered, and Spock sets to work fixing the hand. The team return to the mountain to work out what's going on and... well, to cut a long story short, there's an ancient race locked beneath the mountain, Kirk frees them and everyone lives happily ever after. Until next time...

YES, WE GET THE MESSAGE

So what sets this apart from other graphic adventures? In a nutshell, the amount of atmososphere and detail that's gone into the game. Every single member of the crew talks and acts exactly how you would expect them too, which goes a long way to shaping the puzzles.

You can't do things out of character, so you can't ask Spock to administer medicine any more than Kirk would kill unnecessarily. Probably where the characterisation comes into play most is in conversation. Everyone has something to say at any given moment, and there are some real gems to be found. Try to use your phaser at the wrong moment, and Bones will chime in with 'Dammit Jim, it's a phaser, not a flashlight!'. Spock and McCoy argue almost constantly, never missing a chance to rub each other up the wrong way, and Kirk, as always, is the easy going mediator who uses his diplomacy skills to smooth things over. Sometimes.

The entire game is icon-based, controlled with surprisingly few icons on the bridge and even less when controlling the landing party. On the planet surface, you can 'take', 'talk' and 'use', with use being the most important icon as it gives access to Spock's Tricorder and McCoy's medical bag. Each item has to be used on something, by clicking on the item you want to utilise and then the area of screen to use it on, and you are told via a text box of the result. Due to the various ways in which a mission can

»

STAR FACTS

Star Trek's creator, Gene Roddenberry, insisted that the show should be based on scientific facts and was as accurate as possible. Towards this aim, a number of military, scientific and medical institutions were asked to contribute ideas to the show and approve those already adopted. Although the wobbly cardboard sets made some ideas seem a little implausible, nearly all the scientific instruments and technologies on display could one day become a reality. So detailed were the plans for the Enterprise that the ship's landing deck blueprints were evaluated by the US Navy and hospital authorities showed a keen intest in the diagnostic beds in the ship's sick bay.

UNLEASH THE BEAST.

The news from the European Ministry of Automotive Pleasure is good. An exciting, dramatic and visually splendid new motoring magazine has hit the streets. It's called Max Power, and if you're into modifying your car for extra performance and style, it'll tell you all you need to know. What to do, what to buy and where to buy it. It's fun, it's bullshit and jargon-free and it's out now, so get to your nearest magazine dispensary fast and unleash the beast in your car.

ON SALE NOW!

October issue features:

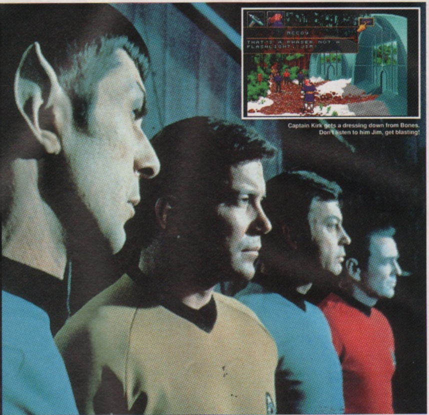
- ★ Peugeot 205 GTI Group Test
- ★ Rover V8 Escort, MkI
- ★ Get into Motorsport
- ★ Part I of Brakes Mega Test
- ★ Guide to In Car Safety
- ★ Opel Manta Buying Feature

PLUS, this mind blowing nutritious sticker sheet completely free!

MEAN, MODIFIED & STREET-LEGAL
MAX POWER
WIN RS KICKER
OOH-STOP IT!
TEN CAR GROUP THRASH
205 V TESTAR
MEAN, MODIFIED & STREET-LEGAL
DON'T STOP ME I'M A MASON!
RAPID RESPONSE UNIT
HANNIBAL HAMSTER
BIG BOAR
THIS CAR HAS BEEN MAX'D
MORE TASTELESS STICKERS ON THE BACK!

MAX POWER

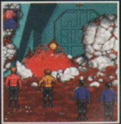
YOU'D HAVE TO BE A RAVING LUNATIC TO MISS IT!



THAT'S A PHASER NOT A FLASHLIGHT, JIM!

Captain Kirk gets a dressing down from Bones. Don't listen to him Jim, get blasting!

...WHERE EVERYONE HAS BEEN BEFORE!



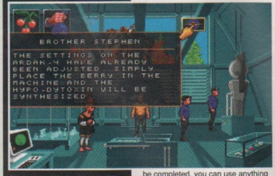
Over the years, there have been numerous attempts at Star Trek games, very few of them official in any way. Here's a quick guide to the three main ones that have appeared.

Star Trek – The Grid Game

Easily the most popular, and one that has appeared in a million different forms all over the PD market. Played like a wargame, this dice and hexagons strategy title is written in BASIC and has little to do with the TV show with the possible exception that the main sprite looks a bit like the Enterprise.

Star Trek – The Action Game

If you haven't seen this yet, don't bother. An impressively detailed intro screen gives way to the worst kind of blaster. Written in the Shoot Em Up Construction Kit, it's poorly designed and unplayable. Again, the main sprite looks vaguely like the Enterprise.



THE SETTINGS ON THE ARDAK-4 HAVE ALREADY BEEN ADJUSTED SIMPLY PLACE THE BERRY IN THE MACHINE AND THE HYPO-DYTOXIN WILL BE SYNTHESIZED

Spock gets technical and the rest of the crew fall asleep standing up.

Star Trek – The Firebird Game

Firebird Software, then an arm of Telecomsoft, were pleased as punch when they snapped up the rights to this little darling of a game. Plans were drawn up, and journalists across the world began to dribble in anticipation of the wonders that were to come. And they waited. And they waited some more. The actual reason for the game being more than two years late are lost in the mists of time, but the wait was certainly not worth while.

be completed, you can use anything on anything, but the most important areas of the screen cause a red line to appear around the mouse pointer, just to push you in the right direction. You won't always get a result, but when you do, you can bet it's significant.

The actual design of the game is possibly the best thing Interplay have ever come up with, and if you've ever played *Wasteland*, you'll know what kind of competition it's up against. A single seven Megabyte file supplies all the data for the game, which includes every single conversation and more split game paths than there are split peas in Tesco. Each mission has one deed that needs to be performed to complete it, but there are always a variety of ways to get to that deed. Obviously, if you take the wrong one, or at least a less than perfect one, your mission score will be low, so you should always be looking for the right way, but it's comforting to know that there are very few mistakes you can make.

STAR FACTS

Before the original cast went (B)oldly into movie production, they were actually signed up to work on a new series of the TV show. On 17th June 1977, Gene Roddenberry announced that contracts had been signed and initial scripts approved. Called *Star Trek: Phase Two*, the project was abandoned just before filming was due to commence as Paramount had a change of heart and decided to go ahead with the movie option instead. Many of the completed screen plays have since resurfaced in *Star Trek: The Next Generation*, but it's interesting to think about what might have been as Kirk and Spock went boldly once again...

FUNNY LOOKING ALIENS

Even with the amazing game design, the secret of the PC's success was the graphics, and on AGA machines the visuals are identical. Huge, realistic spacecraft drift through the cosmos, all drawn in ray-traced positions and rotated a la *Wing Commander* – no polygons here – which makes you feel like you're really in control of the Enterprise. But that's nothing when you compare it to the main sprite graphics of the landing party. OK, so they might be a little chunky, but there's no denying how recognisable everything is. You can always spot the one who'll get killed first because he's in red. Spock's ears are always in shot, and Kirk even has the right haircut, complete with ridiculous sideburns. There are literally hundreds of frames of animation in the game, which is why you're going to need a hard drive! Sure, there are a lot of people who will complain about it not running on non-AGA machines, and the fact that you can't run it from floppy, but when you consider that there's over thirteen Megabytes of decompressed data to play with, you'll understand why.

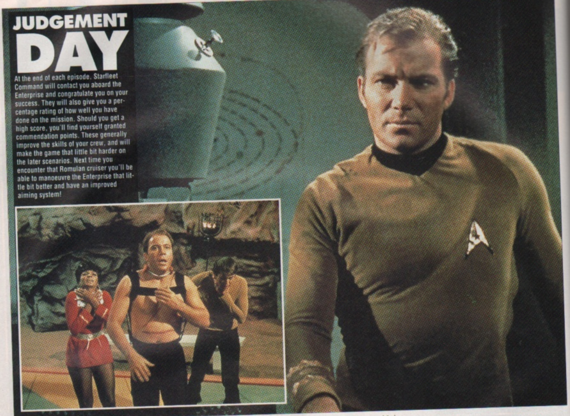
The big question is, of course,

»

»

JUDGEMENT DAY

At the end of each episode, Starfleet Command will contact you aboard the Enterprise and congratulate you on your success. They will also give you a percentage rating of how well you have done on the mission. Should you get a high score, you'll find yourself granted commendation points. These generally improve the skills of your crew, and will make the game that little bit harder on the later scenarios. Next time you encounter that Romulan cruiser you'll be able to manoeuvre the Enterprise that little bit better and have an improved aiming system!



Captain Kirk confronts one of the original Cadbury's Smash robots (above) and (left) after they've sampled the self-same delights (only kidding Cadbury's, we love you really).

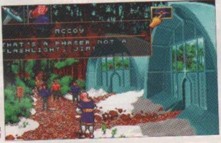
STAR FACTS

The original Star Trek show ran from 1966-69. In all, 79 episodes were produced and some of the biggest names in science fiction wrote for the show. After the second season rumours started to spread that the series was about to be cancelled and a write-in campaign began. In three months, more than 200,000 letters were received by the show's TV station, NBC, who had to employ dozens of extra people to deal with deluge of mail. Newspapers quickly picked up on the story, students held demos and protest marches, and NBC's corporate headquarters were picketed. Finally, bowing to such unrelenting pressure, NBC made an on-air announcement that they were commissioning another series.

» what's it like to play? I wasn't totally at ease with the icon-drive interface at first, simply because there just didn't seem enough options, but once you get into the swing of things you'll realise that those on offer are more than adequate for the job. These are some of the Enterprise's most taxing missions yet. The simple controls merely mean that it's very easy to get into the game - even more so if you are familiar with the characters. Although the action jumps and hangs occasionally, as the program loads in the files it needs, this doesn't detract from the game at all. The verbal sparring between Spock and McCoy, the detailed graphics and sampled sound effects are complemented by an excellent series of puzzles and a script that is faithful to the original shows in almost every respect. Although the puzzles aren't as complex as those you'd find in a Lucasfilm game such as *Monkey Island 2*, they're still quite taxing and will take you a while to solve.

Seven missions might not seem a great deal, but they are fairly complex - too complex sometimes, so you might find yourself coming up against a brick wall and not being able to progress further. The seven missions must be completed in order, so it's not possible to skip to another one should you get stuck. The 3D space combat is also rather weak – yes it does test your reflexes later on but it does feel as if it was included just to pad out the game. And what happens if you don't particularly like this style of gameplay, as I suspect many adventurers will? You still have to complete it before you can beam down to the planet and start the adventure proper.

Despite these gripes, this is one of the best licensed games I've ever played. Let's hope it lives long and prospers. CU



MCCOY

THAT'S A PHASER NOT A
FLASHLIGHT, JIM!

It's life Jim, but not as we know it!

INTERPLAY £34.99

A1200 ☑ A4000 ☑

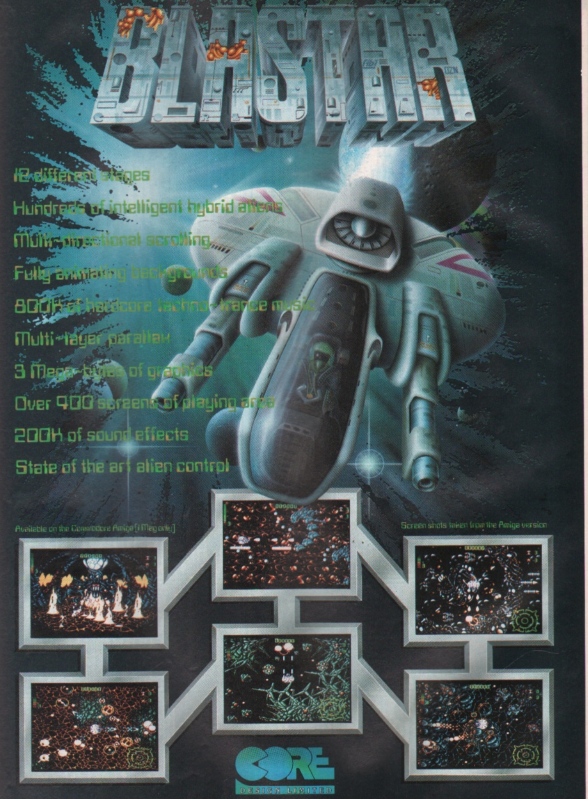
INTERPLAY, THE BARN, ST. JOHN'S YARD, MAIN ROAD, FYFIELD, NR ABINGDON, OXON OX13 5LN.
TEL: 0865 390029

RELEASE DATE:	OCTOBER 1993
GENRE:	ADVENTURE
TEAM:	IN HOUSE
CONTROLS:	MOUSE/ KEYBOARD
NUMBER OF DISKS:	8
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	YES
MEMORY:	2Mb

GRAPHICS	◆◆◆◆◆◆◆◆◆◆89%
SOUND	◆◆◆◆◆◆◆◆◆◆82%
LASTABILITY	◆◆◆◆◆◆◆◆◆◆80%
PLAYABILITY	◆◆◆◆◆◆◆◆◆◆84%

> *The tie-in of the century. Atmospheric and challenging adventure*

OVERALL 86%


BLASTAR
12 different stages
Hundreds of intelligent hybrid aliens
Multi-directional scrolling
Fully animating backgrounds
800K of hardcore techno-trance music
Multi-layer parallax
3 Mega-bytes of graphics
Over 400 screens of playing area
200K of sound effects
State of the art alien control
Available on the Commodore Amiga [1 Meg only]
Screen shots taken from the Amiga version
CORE
DESIGN LIMITED

Tradewinds House, 69/71A Ashbourne Road, Derby, DE22 3FS. Telephone [0332] 297797, Facsimile [0332] 381511

PHOENIX COMPUTER WORLD

Free FAST! UK DELIVERY • SAME DAY DESPATCH* • All prices INC. VAT

COMPUTER WORLD-WORKING TOWARDS BRITISH STANDARD BS 5750 FOR QUALITY & SERVICE

Commodore SPECIALISTS

Canon GVP CITIZEN HEWLETT PACKARD Panasonic Printers star MICRONICS LOGITECH SONY Canon GVP CITIZEN HEWLETT PACKARD

AMIGA CD32

CBM's salvation?? - The worlds first 32-Bit CD games system has been released and is sending shock waves through the industry!! Based on the 68020 Processor and sharing the same chip set as Commodore's Flagship, the A1200, it looks set to become a major force within the home computing environment.

FEATURES INCLUDE: A4 size footprint • 2Mb 32-bit graphics • 128K flash memory (storing high scores) • Includes Diggers & Oscar built-in workbench • plays audio CD's.

Software development is well underway. 77 titles are anticipated before Christmas '93

CW PRICE £289.99

AMIGA 4000

This has got to be the greatest development to the Amiga since its conception in 1985. The 4000-030's are packed full of features and truly represent a milestone in design and value for money from C.B.M.

WHAT YOU GET! FEATURES: 68030ec processor • 25Mhz clock speed • Optional chip and fast RAM configurations (expandable to 16 Mb on mother board, 2 gigabyte max • 9 interfaces • 4-16/32 bit Zorro III expansion slots • 80/120 hard disk and lots more!!

WHAT YOU PAY

Due to the varying specification of products being shipped by Commodore in terms of chip and fast memory and in cojunction with the massive increase in prices of additional memory, we can only ask you to **CALL AMIGA SALES FOR BEST PRICES!!**

A4000-030 with 80/120 HD options

	Chip RAM	Fast RAM	
A4000-030 80Mb	1	1	£P.O.A.
~~A4000-030 80Mb~~	~~2~~	[illegible]	£P.O.A.
~~A4000-030 80Mb~~	1	[illegible]	£P.O.A.
~~A4000-030 80Mb~~	2	4	£P.O.A.
~~A4000-030 120Mb~~	2	2	£P.O.A.

CALL FOR PRICES!

A4000-040 With Massive price reductions call now for the best deal!!

Prices include FREE next working day delivery.

NEED EXTRA FAST RAM?

NOW AVAILABLE!! 32-Bit Memory Modules

1 Mb ..... £POA ~~4 Mb~~ ..... £POA

~~8 Mb~~ ..... £POA

FPU's ~~25 Mhz/50 Mhz~~ ..... £POA

CALL FOR PRICES!

All memory prices have gone up in price - call AMIGA SALES for the best deals!

AMIGA 1200

FEATURES INCLUDE: 68020 Processor Running at 14 Mhz • 2Mb Chip RAM (expandable) 256 colours on screen from a 16.8 million colour palette • Full Amiga Key board (with Alpha numeric key pad).

A1200 Summerpack NEW	£289.99
Includes A1200 Nigel Mansell & Trolls!	
A1200 with Sleepwalker	£284.99

A1200 HARD DRIVE UPGRADE PACKS

COMPUTER WORLD are now offering a FREE fitting service in store for Hard Drives to the A1200/A600 Ask for Steve or Chris. This Service is available seven days a week. Add £20 for additional warranty (only available from date of original purchase if proof of purchase is supplied). This service has already proved popular with hundreds of COMPUTER WORLD customers.-

DON'T DELAY - VISIT TODAY!

All 2.5" IDE Hard disks offer ultra fastaccess time and are supplied from leading manufacturers such as Western Digital/Seagate. Pack also includes cable screws and software.

40Mb pack £119.99 60Mb pack £169.99 80Mb pack £194.99

120Mb pack REDUCED! £219.99

1 year warranty on all models!!

A1200-PCMCIA FAST RAM EXPANSION

Credit card memory now available

2Mb .... £114.99 4Mb £169.99

POWER A1200
TRAPDOOR EXPANSION

CW ARE OFFICIAL POWER DEALERS

These highly rated top selling British-made boards have proved to be market leaders, already renwnowned for premium quality products, POWER have let no one down with the PC1204 - Gold Award Amiga Format.

features include: Zero wait state • Optional Ultra fast FPU (50Mhz) • Real time battery backed clock • Low power • Optional FPU disable switch

PC 4 Mb (no FPU)	£214.99
PC 4 Mb (20 Mhz 68881 FPU)	£259.99
PC 4 Mb (25 Mhz 68882 FPU)	£279.99
PC 4 Mb (33 Mhz 68882 FPU)	£289.99
PC 4 Mb (40 Mhz 68882 FPU)	£299.99
PC 4 Mb (50 Mhz 68882 FPU)	£339.99

includes real time clock

A 1200 ACCESSORIES

CW A1200 real-time clock 1 yr warranty	£15.99
CW A1200 600 HD prep disk	[illegible]
Control Centre (inc. 1MB cables)	[illegible]
Dust Covers	[illegible]
Multi-Sync Monitor adapter cable	[illegible]

GVP A1200
ACCELERATORS

GVP A1230 ACCELERATOR

THIS TOP SELLING 68030ec-accelerator chip, running at a blistering 40 Mhz with an optional 40MHz fpu (68882) and memory configurationsn of up to 32 Mb is simply awesome and it's on demo in our **LEEDS SUPER STORE!**

0 Mb, no fpu	£239.99
4 Mb, no fpu	£379.99
4 Mb, 68882 fpu	£479.99

A1200
ACCELERATORS

The Microbotics M1230XA is available in a 40Mhz version & a 50 Mhz inc memory management unit. This peripheral can expand up to 128 Mb of FAST 32-bit memory. Existing MBX users can transfer their current memory and fpu and includes real-time clock.

M1230XA 40 Mhz 0Mb	£269.99
M1230XA 40 Mhz 2Mb	£349.99
M1230XA 40 Mhz 4Mb	£428.99
M1230XA 40 Mhz 8Mb	£569.99
M1230XA mmu 50 Mhz 0Mb	£349.99
M1230XA mmu 50 Mhz 2Mb	£428.99

A1200
32-BIT RAM CARD

NEW FROM GOLDEN IMAGE

FEATURES:- Integrated 8 Mb 32 bit Ram for A1200 • Optional 68882 FPU and oscillator • Real time battery backed clock, a must for hard drive users • Auto config with zero wait states • 100% compatible with A1200.

1Mb with clock, no FPU or Oscillator	£124.99
5Mb with clock, no FPU or Oscillator	£259.99
5Mb with clock & oscillator, 16MHz 68882 FPU	£307.99
5Mb with clock & oscillator, 20MHz 68882 FPU	£313.99
5Mb with clock & oscillator, 25MHz 68882 FPU	£319.99
5Mb with clock & oscillator, 33MHz 68882 FPU	£323.99
9Mb with clock, no oscillator, NO FPU	£399.99
9Mb with clock & oscillator, 16MHz 68882 FPU	£449.99
9Mb with clock & oscillator, 20MHz 68882 FPU	£454.99
9Mb with clock & oscillator, 25MHz 68882 FPU	£464.99
9Mb with clock & oscillator, 33MHz 68882 FPU	£474.99

SUPRA 28 MHz Turbo for all 500/500+'s

CW Price £128.99

AMIGA'S

A600 1 Mb Base Pack	£194.99
A600 2 Mb Base Pack	£229.99

A 600 THE WILD, THE WEIRD & THE WICKED

1 Mb A 600 as standard and includes the excellent value Software titles: Deluxe Paint III • Formula One Grand Prix • Putty • Pushover.

CW BARGAIN PRICE £214.99

A 600 2Mb (incl. above software) £249.99

HARD DRIVES

GVP IMPACT SERIES II Hard Drives, the fastest Hard Drive/Controller for the Amiga. Features Game Switch, external SCSI port, FAAASTROM SCSI Driver, GVP's custom VLSI chip and internal RAM expansion up to 8 meg! Units use high specification fast-access QUANTUM Hard Drives coming with 2 yr. guarantee.

500/500+

A500-HD8+ 42 Mb	£194.99
A500-HD8+ 80 Mb	£294.99
A500-HD8+ 120 Mb	£389.99
A500-HD8+ 213 Mb	£564.99
A500-HD8 controller only	£179.99

1500/2000

Series II Hard Disk Controller/RAM card	£122.99
Series II 42 Mb Hard Disk and RAM card	£284.99
Series II 80 Mb Hard Disk and RAM card	£329.99
Series II 120 Mb Hard Disk and RAM card	£406.99
Series II 213 Mb Hard Disk and RAM card	£544.99

BOOST YOUR AMIGA'S PERFORMANCE WITH EXTRA MEMORY - £49.99 PER Mb

ACCELERATOR-
HARD DRIVES

500/500+

GVP Combination Accelerators & Hard Drives-The ultimate expansion product for the Amiga 500!

A530 Combi 40MHz + 42Mb	£389.99
A530 Combi 40MHz + 80Mb	£484.99
A530 Combi 40MHz + 120Mb	£579.99
A530 Combi 40MHz + 213Mb	£679.99
A530 68882 Co-Processor	£219.99

1500/2000

GVP G-Force 030-25MHz + 1Mb	£474.99
GVP G-Force 030-40MHz + 4Mb	£757.99
GVP G-Force 030-50MHz + 4Mb	£1136.99
GVP G-Force 040-33MHz + 4Mb	£1419.99

GVP Accelerator RAM

1Mb Simm-32 Bit 60 Nanoseconds	£65.99
4Mb Simm-32 Bit 60 Nanoseconds	£179.99

DISK DRIVES

All drives feature super slim design, enable-disable switch, thru port and come with a 1 year replacement guarantee!

Computer World Deluxe Drive	£54.99
Power-high density disk drive	£99.95
Roctec Roclite REDUCED	£59.99
includes Anticlick and Virus Checker.	
Disk head cleaner	£3.99

MONITORS

COMMODORE 1942 14" Monitor £379.99

Ideal for A1200/4000 • AGA • 28mm Dot Pitch • Tilt 'n' swivel stand • Built-in Stereo Speakers • Works with ALL Amigas in most resolutions • 1 yrs on-site warranty

COMMODORE 1940 14" Monitor £289.99

Specification as above, but this one has a 39mm dot pitch

PHILIPS 8833Mk II ..... REDUCED £194.99

Col. Stereo Monitor inc 'Lotus Turbo Challenge', + 1 yrs on-site warranty.

PHILIPS OFFICIAL T.V. TUNER £34.99

Complete with AFC enables you to watch T.V. through your monitor.

MONITOR ACCESSORIES-

14" dust covers	£4.99
14" tilt & swivel stand	£13.99
Anti-glare filter screen	£19.99
A4 copy holder	£12.99

MEMORY
EXPANSION

A 500+

A RAM module can expand your chip RAM up to 2 Mb by using the trapdoor expansion port. All our boards carry a full 2 year no quibble replacement guarantee.

CW PRICE £34.99

A 500

1/2 Mb inc. clock	£29.99
1/2 Mb without clock clock	£19.99

A 600

PA 601-populated-1Mb	£34.99
PA 601-unpopulated-0Mb	£24.99
PA 6020 2 Mb PCMCIA card	£114.99
PA 6040 4 Mb PCMCIA card	£169.99

BOOKS

We stock the best selling range of Bruce Smith books

Mastering Amiga DOS Vol 1	£21.95
Mastering Amiga DOS2 Vol 2	£19.95
Mastering Amiga DOS3 NEW	£19.95
Mastering Amiga W.B. 2	£19.95
Mastering Amiga C	£19.95
Mastering Amiga Printers	£19.95
Mastering Amiga Assembler	£24.95
Mastering Amiga System	£29.95
Mastering Amiga AMOS	£19.95
Mastering Amiga AREXX	£21.95
Mastering Amiga Beginners	£19.95
A600 Insiders Guide	£14.95
A1200 Insiders Guide	£14.95

A 570 CD-ROM

Long awaited, superb performance, tempting but too expensive-NOT ANY MORE!!!! This excellent interface for A500/500+ owners is now at a price that YOU can afford. Use it to exploit stunning software packages or simply to listen to your favourite tunes

WHAT YOU GET! • A570 CD ROM • Fred Fish Disks 1/660 • Sim City • Hutchinson's Encyclopedia + Lemmings

NB you need at least 1Mb of chip ram so check with telesales before ordering.

WHAT YOU PAY £149.99

SPECIAL OFFER!

Pandora's CD - Over 500 Mb of Sound, Clip Art and Animation on one feature packed CD!

CW PRICE £4.99

EPSON FLAT BEDS

Epson scanners offer the ultimate in flexibility, technical specification and value for money. For more information call 0532-350091 and ask for the Epson info line.

EPSON GT 6500 £729.99

Epson GT 6500 SCSI	£812.99
Epson GT 8000	£1084.99
Epson GT transparency adaptor	£528.99
Epson GT document feeder	£729.99

For automated O.C.R.

Art Department Professional Scanner Software Compatible with GT 6500, GT 80000, 6000 and E5300C, E5600C, E5800C £104.99

AMIGA MUSIC

Technosound-turbo 1	£29.99
Technosound-turbo 2 NEW	£36.99
Pro-Midi 2 Interface	£24.99
professional quality midi interface is very flexible. It has four ports 2 in, 2 out, (inc. FREE midi lead)	
GVP Digital Sound Studio	£39.99
'MIRACLE' KEYBOARD REDUCED	£249.99

It really does teach you how to play!!! Full size keyboard with built in MIDI interface • 100 onboard sounds with effects • ability to customise lessons by use of artificially intelligent software!!

JOYSTICKS

All Joysticks are fully micro-switched unless stated.

Fight Gripstick	£8.99
Jet Fighter	£14.99
Apache	£7.99
Cheetah Bug	£13.99
Top Star Stick	£24.99
Analogue Freewheel	£38.99
Analogue Joystick adaptor	£9.99
Speedking Analogue	£9.99
Gravis Switch Joystick	£24.99
Gravis game pad	£19.99
Intruder 1 (Flight Sims)	£24.99
Freewheel (Analogue)	£38.99
Python 1m	£9.99
Quickjoy Jetfighter	£14.99
Quickjoy Turbo	£7.99
Quickjoy Pro Pad	£16.99
Cruiser Black (dual lead)	£10.99
Cruiser Multi-coloured (dual lead)	£11.99
SG Pro Pad	£14.99
Zipstick Pro Autofire (top selling)	£14.99
Konix Speedking Analogue	£14.99
Konix Speedking Digital	£12.99
BUG (Green)	£14.99
Pro 5000	£12.99
Comp Pro 5000	£14.99
Comp Pro Mini 5000	£14.99
Comp Pro Star Mini 5000	£18.99
Beetle Mouse (for kids) great dpi	£14.99
Foot Pedal	£24.99

PUT US TO THE TEST!

Our highly trained staff are waiting to take your call on

0532-350091

VIDEOS

The Amiga History Video	£9.99
Amiga History Primer	£14.99
Animation Vol. 1	£9.99
Animation Vol. 2	£9.99
Star Wars Animation	£8.99
Amiga Graphics Vol. 1	£9.99
Deluxe Paint Video Guide	£14.99
Advanced Deluxe Paint Video Guide	£14.99
Desktop Video Vol. 1	£9.99
Desktop Video Vol. 2	£9.99
Amiga Service &Repair Guide	[illegible]

All memory prices have gone up in price - call AMIGA SALES for the best deals!

Control Centre	£36.99
Dust Covers	£5.99
Multi-Sync Monitor adaptor cable	£12.99
CW BARGAIN PRICE	£214.99
A 600 2Mb (incl. above software)	£249.99
Roctec Rochlite	£59.99

includes Anticlick and Virus Checker.

Disk head cleaner	£3.99
A600 Insiders Guide	£14.95
A1200 Insiders Guide	£14.95

onboard sounds with effects • ability to customise lessons by use of artificially intelligent software!!

Desktop Video Vol. 1
Desktop Video Vol. 2
Amiga Service &Repair Guide

PRINTERS

COMPUTER WORLD ARE A CITIZEN SUPER DEALER

SWIFT 90 COLOUR - 9 PIN colour printer is fast quiet, has additional fonts and comes complete with a 2 year warranty and V 2.0 driver disk! **£169.99**

Swift 90 Mono NEW!	£159.99
Swift 240 Colour (FREE Pen Pal 1.5)	£269.99
Swift 240 Mono	£259.99
Swift 200 Colour	£224.99
Swift 200 Mono	£192.99
Citizen Auto sheet feeder	£79.99

Citizen printers come with 2 year warranty. + V.2.0 Amiga driver disk

BUBBLE JET

MAJOR DEALER • MAJOR DEALER

Canon Canon

CANON BJ 10Sx Upgraded version of BJ10ex, the worlds biggest selling portable inkjet printer. Newly designed front end, fasterprint times, more fonts, 95% Amiga Gold Award, inc. BJ10Sx Driver Disk!

FREE T-SHIRT **£227.99**

CANON BJ 200 95% Amiga Gold Award	£319.99

Feature include: 300 dpi. • Min 80 page Auto sheet feeder • minimum 3 pages per minute SUPER VALUE!

CANON BJ 220 NEW!	£379.99

Wide carriage version of BJ200

CANON BJ 300	£429.99

80 column bubblejet provides laser quality output.

CANON BJ 330 136 column bubblejet	£499.99
CANON BJ ex/sx cartridges	£17.99
CANON BJ 200 cartridges	£24.99
BJ 10 ex/sx Autosheet feeder	£49.99

HEWLETT PACKARD

H.P. Portable	£359.99
H.P. 510 Mono REDUCED	£262.99

Successor to the top selling 500 Mono

H.P. 500 (Colour) REDUCED	£309.99
H.P. Deskjet 550 (Colour) REDUCED	£519.99

4 times faster than previous HP range • Top sellers • Superb printers HP printers come with 3 year warranty.

H.P. Deskjet 1200C Laser/inkjet	£1369.99

45 scaleable fonts,P.C.L. level 5, 6 pages per min. 300x600 dpi (if using the resolution enhancement tech 4 pages per min.) 2Mb of RAM expandable to 26 Mb, laserjet compatible.

H.P. Laserjet 4L REDUCED	£602.99

4 pages per minute, laser easy to install & use, no on/off switch 1 tray 100 input 50 output. 26 scaleable typeface's, 1Mb of RAM expandable to 2Mb.

HP black ink cartridge *	£24.99
HP colour ink cartridge *	£29.99

*Official Double Life

PRINTERS

COMPUTER WORLD PRINTER PACK
Supplied with ALL printers containing 1.8m std. printer cable, printer ribbons/cartridge and 250 sheets of paper absolutely FREE.

star star star

LC-100 Colour REDUCED	£155.99
LC24-100	£189.99
LC-20	£132.99
LC-24-20 (II)	£224.99
LC-200 Colour	£199.99
LC24-200 Colour	£264.99
XB24-200 Colour	£379.99
SJ48 Bubblejet	£219.99
LS-5 Laser Dual Bin, 0-5 Mb... REDUCED	£589.99
LS-5ex Laser as above with 1Mb 600x300 dpi	£669.99
LS-5TT Laser 2Mb	£899.99

SJ-144

NEW NEW NEW **£514.99**

A stunning new thermal printer from Star. Full 360 x 360 dpi. in both mono and colour, 3 ppm in mono, 1.4 ppm in colour. Can print up to 600cps. CPS Sheet feeder as standard, virtually portable printers, small footprint. Zoom mode to offer easy printing in A4 A5 and A6 sizes. NOW ON DEMO IN-STORE, MUST BE SEEN TO BE BELIEVED!!!

Star printers come with one year warranty

STAR AUTO SHEET FEEDERS

LC20	£57.99	LC200	£59.99
LC24-200	£62.99	LC24-20	£62.99
SJ48	£49.99		

PRINTER ACCESSORIES

We have a large range of high quality printer accessories for all the printers we sell including: dust covers from £2.99 • Ink cartridges from £13.99 • Mono ribbons from £3.50 • Colour ribbons from £7.99 • Printer stands from £7.99

MICE & TRACKBALLS

Beetle Mouse Kids Mouse with superb dpi	£14.99
Stars 'n' Stripes Kids Mouse with superb dpi	£14.99
European Community (Design)	£14.99

ALL MAKE EXCELLENT KIDS PRESENTS!

Mouse 121	£14.99
Golden Image-Mega Mouse 90% AF Gold	£12.99
Mega Mouse 2 Newly designed, 400 dpi	£16.99
Optical Mouse, High precision pointing device	£29.99
Crystal Trackball	£37.99
Infrared-Cordless-Mouse (Rechargeable top selling innovation.)	£47.99
Optical Pen Mouse	£39.99
High Quality 8mm mouse Mats	£3.99
Auto Mouse/Joystick Switch	£15.99

Don't damage your Amiga's ports!This device saves wear and tear makes switchover FAST.

SCANNERS

Powerful image processing tools for the office or the home environment.

POWER-Features include: 100-400 dpi • 64-Greyscales Thruport to printer • Free Editing software.

Power Scanner v3.0	£99.99

Includes Free upgraded editing software.

Power Scanner v3.0+OCR	£149.99

Includes Free upgraded editing software

N.B. Existing v3.0 owners can upgrade to OCR for	£49.99
Power Scanner Colour	£234.99

GOLDEN IMAGE-

Alfascan Features: Scan and Save • Migraph Jnr. OCR software • 400 dpi • 256-Greyscale • Not A1200/4000 compatible.

CW NEW LOW PRICE	£139.99

Alfascan+ Features: Touch up an merge it • Migraph Jnr.OCR software • 400 dpi • 256-Greyscale • 100% compatible with all Amigas.

CW PRICE	£169.99

DISKS

Don't confuse these quality disks with others currently available. 3.5" 100% certified error free 70% clip. All disks include FREE high quality CW labels.

10	£4.99	200	£72.99
25	£12.99	500	£174.99
50	£22.99	750	£259.99
100	£39.99	1000	£339.99

Now back in stock! TDK branded 3.5" DS DD diskettes boxd in 10's with lables. Top quality media from the experts!

10	£5.99	100	£52.99
50	£28.99	500	£249.99

1000 Computer World Disk Labels	£9.99

ACCESSORIES

Premier Control Centre For the A600,A500 and A500+	£34.99
CW Stereo Speakers	£37.99

DATA SWITCHES-(25 pin D type)
2 way...£15.99 3 way...£17.99 4 way...£19.99

Connecting Cable for the above	£9.99
Action replay cartridge for A500/500+	£54.99
Hi-Fi Stereo Speakers (new style)	£39.99
Spectrum Emulator (on 2 disks with 8 games)	£2.99
Replacement internal A500/500+ drive	£49.99
Dust Cover A500/500+	£5.99
Dust Cover A1200	£5.99
Dust Cover A600	£5.99

MODEMS

U.S. ROBOTICS
AUTHORISED RESELLER

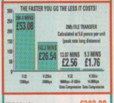
The No 1 name in fax modems, US Robotics pride themselves on high quality modems at an affordable price. They come backed with a 5 year warranty and are fully BABT approved.

5 YEAR WARRANTY

THE SPORTSTER	£269.99

Comes Complete with opticomms 2 software and standard Amiga to Modem Cable. This modem incorporating data pump technology, operates at 14400 bps standard. It is 50% faster than 9600 bps modems and has full error control and data compression. It has the ability for throughput to reach 57600 bps.

WHY IS SPEED SO IMPORTANT?



V32 bis+fax	£383.99

As above with 5 year warranty, cable & software.

Courier HST 16.8	£399.99

As above with 5 year warranty, cable & software.

Courier HST Dual 16.8 + Fax	£509.99

As above with 5 year warranty, cable & software.

LEADS & CABLES

Midi-Midi 2m	£3.99	Modulator ext	£9.99
Midi-Midi 3m	£4.99	Amiga-Scart	£9.99
Midi-Midi 5m	£5.99	Amiga-8833MkII	£9.99
Disk Drive ext	£9.99	Joystick long ext	£4.99

Mouse/Joystick ext	£4.99
Mouse/Joystick splitter	£4.99
Serial/Modem cables	£9.99
Amiga-Multisync from	£9.99
Amiga-Microvitec	£9.99
Amiga-CPC monitor	£9.99
Amiga-RGB/TV	£9.99
SCSI Cable various	£9.99

Printer 1.8m	£5.99	Printer 2.0m HQ	£7.99

SOFTWARE

ACCOUNTING

Arena Accounts	£82.99
Personal Finance Manager Plus	£29.99
Home Accounts 2	£39.99
System 3	£39.99
System 3E	£54.99
Cashbook Comb	£54.99
Day by Day	£22.99

SPREADSHEETS

Maxiplan V4	£36.99

PRESENTATION & SLIDESHOW

Can Do V2	£99.99
Deluxe Video 3	£69.99
Scala 500	£79.99
Scala Professional	£179.99

FRACTAL SFX & IMAGE PROCESSING

Make path for Vista	£32.99
Art Department Pro 2	£134.99
Art Dept Pro Conv Kit	£59.99
Deluxe Paint 4 AGA	£69.99
Imagemaster	£129.99
Morph Plus	£159.99
Pro Vista v3 REDUCED	£49.99

INTERGRATED PACKAGES

Mini Office	£39.99
Gold Disk Office 2	£46.99

MULTI-MEDIA

Computer world are a major stockist of rombo's multi-media products for the Amiga and P.C. Be assured that we offer extensive technical backup on all Rombo products and that the majority are on demo in our showroom.

Vidi Amiga 12 RT (AGA suprt)	£135.99

Real-time colour capture from any video source

Vidi Amiga 24 RT (AGA suprt)	£224.99

24-Bit Real-time colour capture from any video source for the professional/serious user

Vidi Amiga 12 (AGA version)	£77.99
Vidi Amiga 12 (Std version)	£75.99
Rendale Genlock 8802 FMC	£169.99
GVP Genlock	£284.99

Vidi Amiga 12 price includes insured postage for extra peace of mind!

HAMA Genlock 292	£284.99

(10 MHz bandwidth) Compatible with all Amigas. Hi band & composite video. Seperate RGB connector cable. RGB colour control for Amiga signal. Output fader control (video only)/special Amiga 3000 switch.

Rocgen Plus	£139.99
Rockey Chromakey	£129.99
Roctech PIP View (picture in picture unit)	£89.99
Rocgen VGA	£359.99

SOFTWARE

LANGUAGES

Blitz Basic (Full UK Version)	£49.99
Amos	£34.99
Amos Compiler	£21.99
Amos 3D	£25.99
Amos Professional Compiler	£35.99
Easy Amos	£25.99
Cygnus Ed Pro 2	£59.99
Hisoft Basic	£39.99
Hisoft Extend	£16.99
Hisoft Dev Pac	£49.99
Hisoft Pascal	£64.99
Lattice C v6+New Version	£239.99

FONT PACKS

Anim Fonts (Vol 1,2,3 or 4)	£32.99
Kara Fnts (Hdlines 1,2 or 3,subhds)	£39.99
VideoFnts:(Serif1/SansSerif 1/2/Decrtve)	£49.99
Typesmith	£124.99

UTILITIES

Amiback	£42.99
Amiback Tool	£42.99
Cross Dos v5 (inc. PC emulator)	£32.99
GB Route Plus	£36.99
Directory Opus v4.0	£49.99
Gigamem REDUCED	£69.99
Hotlinks Editions	£89.99
Quarterback Tools Deluxe	£98.99
Quarterback v5	£52.99
Quarterback Tools	£54.99
X-Copy Professional	£29.99

VIDEO PRODUCTION & TITLING

Big Alternative Scroller	£36.99
Big Alternative Scroller 2	£59.99
Broadcast Titler 2	£229.99
Broadcast Titler 2 Hi-res Edition	£279.99
Font Pack 1 for BT2	£86.99
Pro Video Post	£164.99
Scala 500	£79.99
Scala Professional	£179.99

ANIMATION

Deluxe Paint 4 AGA REDUCED	£64.99
Morph Plus	£159.99
Real 3D Classic	£77.99
Real 3D V2	£359.99
Take 2	£36.99
Personal Paint	£46.99

RENDERING & RAYTRACING

Alternative 3D Textures	£29.99
Essence	£49.99
Morph Plus	£169.99
Pixel 3D Pro	£144.99

DATABASE

Mailshot Plus	£36.99
Superbase 2	£19.99
Superbase Personal 4	£119.99

SOFTWARE

WORD PROCESSING & DTP

Pro-Page 2.1/Pro-Draw 1.2 bundle	£79.99
Final Copy Release 2.2	£79.99
Kindwords	£35.99
Pagestream v2.22 ONLY	£64.99
Pagestream v3 Full UK version NEW!	£244.99
Pagestream Business Forms	£29.99
Pagesetter 3	£41.99
Pen Pal	£39.99
Professional Page v4 ONLY	£104.99
SoftFaces (vols 1-4)	£59.99
Soft Clips	£42.99
The Publisher	£36.99
Wordworth v2 (AGA)	£76.99
Turbo Print Professional	£34.99

MUSIC & SOUND

KCS Level II v3.5	£219.99
Bars and Pipes Pro V2	£249.99
Kits for Bars and Pipes	£44.99
Super Jam v1.1	£79.99
The Patchmeister	£62.99
Triple Play Plus	£164.99
SyncPro	£184.99
One Stop Music shop	£564.99
AMAS 2	£74.99
Clarity 16 (16 bit sampler)	£114.99
Quartet	£39.99
Stereo Master	£29.99
Videomaster	£52.99
Deluxe Music not v20	£52.99
Megamix Master	£29.99

GAMES-LEISURE

F-17 Challenge BARGAIN!	£11.99
Soccer Kid NEW!	£24.99
Dune2 NEW!	£26.99
Walker	£24.99
Road Rash	£21.99
Gunship 2000	£27.99
Swing Value	£7.99
Abandoned Places	£27.99
Graham Gooch Cricket	£28.99
F-19 Stealth Fighter	£14.99
Operation Stealth	£14.99
Tank Platoon	£14.99
Flashback	£28.99
Body Blows	£24.99
Superfrog	£24.99
Lemmings 2	£27.99
Desert Strike	£27.99
Sensible soccer	£23.99
Chuck Rock 2	£23.99
Street fighter 2	£25.99
B17 Flying Fortress	£29.99
Zool	£23.99
Humans	£27.99
Abandoned Places	£32.99
Premier Manager	£23.99
Nick Faldo's Championship Golf	£32.99
Historyline 1914-1918	£32.99
Sleepwalker-comic Relief	£23.99
Indy Jones & Fate of Atlantis	£36.99
Legends of Valour	£37.99
Wing Commander	£32.99
Sportsmasters (A1200 compatible)	£27.99

Inc PGA Tour Golf • European Championship Soccer • Indy 500 • Advantage Tennis

Syndicate	£28.99
The Lost Viking	£28.99
The Ancient Art of War in the Skies	£28.99
Goal by Virgin New by dino Dini	£24.99
Beavers Grandslam NEW!	£25.99

HOW TO ORDER

TO ORDER BY PHONE:
0532 350091
Quoting your Credit Card No.

For Customers not able to visit our Showroom we offer one of the fastest and most complete mail order services available.
STANDARD DELIVERY FREE
Next day delivery only £5.00 • 2 day delivery £3.50

By Post to:

PHOENIX COMPUTER WORLD, UNIT 2, YORK TOWERS, 383
YORK ROAD, LEEDS LS9 6TA.

Please make cheques payable to Phoenix. Allow 5 working days for cheque clearance.

*Same-Day Despatch on Credit Card Orders/ bankers draft/ building society cheque/Postal orders.

CUSTOMER CARE AND GENERAL ENQUIRIES
(0532)350652 FAX: (0532) 350702

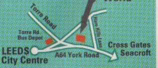
HOW TO FIND US

WELL WORTH A VISIT!

FREE PARKING

800 sq.ft. SHOWROOM

EASY ACCESS FROM M1 AND M62



OPEN 7 DAYS
Mon. Sat. 9.30 am - 6.00 pm
Sun. 11.00 am - 3.00 pm
Thurs 'late till eight'

Please note that when ordering any products in the current advert with a value in excess of £100 you are entitled to any game listed at a 10% discount... GREAT VALUE...only from COMPUTER WORLD!!

E&O.E.

DESIGNED AND PRODUCED BY WHITE MOUNTAIN 0532-390880

Amiganuts

Public Domain Library
12 Hinkler Road Southampton Hants SO2 6FT
Phone (0703) 470017

Send 50p For Latest Catalogue Or Send In Your Old Catalogue For Free Update

RECOMMENDED UTILITIES

1265 Word Power (P) (1MB)
1266 AGraph & Freepaint (P) (1MB)
1273 D-Copy 11 (p)
1275 The Money Program (P)(1mb`
1319 Supersound v2.1 (P) (Mb)
1337 Relokit 1.3 (P only)(1Mb)
1339 OctaMed v2 (P) (1Mb)
1341 Text Engine v4 (P) (1Mb)
1342 Check Book v2.3 (P)(1Mb)
1348 DE Docks For Assembly Progs
1354 A-Base the best Pd database
1355 File Management Utils + docs
1357 InScript Video Titler
1358 Pools Predictor
1362 Spread A Simple Spreadsheet
1365 AGT Adventure game creator
1369 System Checker routine check

Misc

1312 The Journey (2)(P)(1Mb)
1322 Dolphin Dreams
1315 Sudden Impact AMOS Mag
1329 Jesus On E's (2)(P)
1330 RSI Timezone Demo (2)(P)
1338 State Of The Art (Rave)

ASSASSINS GAMES

We stock all Assassins Games Disks Below Is alist of new additions:

ASI 50 Euphorion, Roach motel, Balders Grove
ASI 51 Lamers, Fighting Warriors, Shapes
ASI 52 Rockalide,Mouthman,N,U
ASI 53 Supercube,Mastermind, Powerwars, Velcro Grub, Quadong, Kings
ASI 54 Serene, Serene 11, Car Wars
ASI 55,Pactac, Asteroids.
ASI 56 Picture tiles, Storm eagles ExtremeViolence.
ASI 57 Poo,Poo, Dominos, Dizzy Diamonds, Squirm
ASI 58 Super Raid 1V, Magnatron Malyse.
ASI 60 Pipe Master, Alien Hunter Chinese Checkers
ASI 61 Rattlesnake Running, Chaser Scud buster
ASI 62 Pipeline 11, Mazerman, Up n Down
ASI 63 Nautilis, Frenzy, Drive IFF
ASI 64 Oblivion, Breakout Kit Drive wars
ASI 65 Paranoids, Word Search, Mirrorwars, Word puzzle,Chess
ASI 66 Cow Wars,A Mastermind Asoloaban
ASI67 Siege Of The Beast, E-ype11 Vector.
ASI 68 Demolition Miss, Bounder, Atoms
ASI 69 Klondike, Klondike 2,3 Poker
ASI 70 Tetris Pro Wangle.
ASI 71 Battleships, VS,Tanks Numerix.
ASI 72 Car 11, Boulderdash, Escape11
ASI 73 Lexess, Concentration, Challenge.
ASI 74 Crazy pipes 11, BombJacky Chute.
ASI 75 Double Squares, Colours, Diamond Thief.
ASI 76 CNU Chess, Cubis, Gerb Games
ASI 77 Ballonacy, Cliff Hanger, Descender

PD PACKS

MUSPO Music maker Pack--£5.50
OctaMED v2 with docs, SuperSound v2, 2disks Of samples and 1 disk of modules. 5 Disks in all. Must be the best of it's type availible!!

MUSP1 OctaMED Samples-£9.00
An 8 disk set of samples for use with OctaMED. Very popular.

MUSP3 OctaMED Modules-£15.00
A 14 disk set of modules for use with OctaMED.

ANIM 1 Shawartz Pack-£5.50
A 5 disk set of Eric Shwartz animmations that will run out on any 1 Meg animmations, a demo, utility disk and a games disk

BUSP1 Productivity Pack-£5,50
5 disk containing more serious software. Includes a word processor A Database, Spreadsheet, Finance Manager, etc, etc.

****PD Prices*******

1 to 5 disks	£1.80 each
6 or more	£1.25 each

Postage

	EC	World
1 to 5	£0.60	£1.50
6 to 10		£0.60
£3.00		
11to 20	£1.00	£7.00
21 or more	£2.00	£9.00

Licenceware

****** Note that postage ********
****** still apply ******

HARDWARE PROGRAMMING MANUAL

Disk 1 ts a PD (1.25). Disks2,3, and 4 cost £5.00 or all 3 for £12.50. For Assembly language programmers. This manual comes on four disks and is designed to take the novice assembly programmer through programming, the Amiga hardware directly for games and demo purposes. subjects covered include Getting started, interrupts, Copper, Display, Sprites, Blitter,Audio Hardware, Tr acker Replayer. Each subject has an easy to follow tutorial backed up by numerous examples all accesable from the custom designed interface along with an assembler for you to try for yourself. Disk 1 is PD and comes with the display enviroment,assembler, Include files (custom ones), beginners guide-for the absolute beginner and over 40 examples.coded by Mark Meany the author of the ACC disks.

ACC (3.50) The Amiga Coders Club disks. Now in It's third year, of interest to new and seasoned code. Issue 30 availible at last!

SuperS ound v4(4.00) An excellent sampling package that allows numerous effects to be applied to sampled sounds.

CLR

CLU 01	video Tiler	£3.50
CLU 03	Typing TUTOR	£3.50
CLU 05	A-Chord	£3.50
CLU 14	Stock Controller	£3.50
CLE 01	TC Dinosaurs	£4.50
CLE 02	TC Geology	£4.50
CLE 03	TC Solar System	£4.99
CLE 06	Maths tutor(GCSE)	£3.50
CLE 07	TC Fresh water fish	£4.50
CLE 08	The Night Sky	£3.50
CLE 14	TC Ecology	£4.99

Fred fish, We stock all Fred Fish disks from 1-850. A full listing is obtainable on 2 disks (3.00)

We also stock T-Bag 1-77, Scope1-22 and other PD collections.

Please note that we no longer distribute software for RBF software This includes the following;Octamed V4, V5, A-Gene and AMFC.

Please make cheques/Postal Orders/ Drafts payable to Amiganuts.

Local? Why not come and see us Saturdays at Kingsland Market, St, Marys street,Southhampton

---

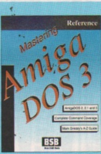
AWESOME!

Exploit the built-in power of your computer with these great new titles from Bruce Smith Books

Amiga gamer's guide
Volume One
BSB

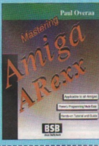
Written by *CU Amiga* editor Dan Slingsby, the highly illustrated *Amiga Gamer's Guide* contains a wealth of background information for your favourite Amiga games such as Streetfighter 2, Sensible Soccer and Zool. You'll find full solutions, picture by picture walkthroughs, tactics, strategy and cheats.
From sports sims to arcade adventures, *Amiga Gamer's Guide* gives you all the hints and tips, hidden screens and puzzle solutions you could ever need. Topped off with the most complete A to Z of tips and tricks to over 300 of the greatest games, it's sure to become your essential guide to *winning* on your Amiga.

Amiga Gamer's Guide
Dan Slingsby, 368 pages, £14.95,
ISBN: 1-873308-16-7



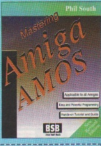
Mastering AmigaDOS3 is the only complete A to Z guide to over 140 AmigaDOS commands, and is *the* established reference to the Amiga's DOS.
Each command is documented through practical examples which introduce ideas for writing script programs. All entries are fully cross-referenced and indexed so the information you need is easily accessed in a jargon free manner.
If your machine comes with AmigaDOS2, 2.1 or 3 or you have just upgraded, exploit its power for your everyday computing needs with this essential title!

Mastering AmigaDOS3 Reference
Mark Smiddy, 416 pages, £21.95,
ISBN: 1-873308-18-3



The ARexx programming language is assured a bright future as part of Workbench, with official endorsement from Commodore itself. No harder to learn than BASIC, the examples and listings supplied will teach you ARexx from scratch. A complete understanding of the application control advantages of this powerful language can be yours.
Find out how to install ARexx on any Amiga. Work through the tutorials, on both beginners and advanced programming topics. Also applicable to Workbench 1.2 and 1.3 users (we tell you how to get ARexx). *Free* disk of example scripts when ordered from BSB.

Mastering Amiga ARexx
Paul Overaa, 336 pages, £21.95,
ISBN: 1-873308-13-2



This popular guide to AMOS programming has been fully revised to take account of new developments, including AMOS Professional. More program examples, red hot tips and coding shortcuts make this the quickest route to programming success using this powerfull language.
No previous experience is assumed and everything about AMOS programming is explained in a no-nonsense style which both beginners and experts will appreciate.

Mastering Amiga AMOS (Rev. Ed.)
Phil South, 336 pages, £19.95,
ISBN: 1-873308-19-1

CREDIT CARD HOTLINE
(0923) 894355
(24-Hr Ansaphone) – 24-Hour dispatch

Also available in all good bookshops

– How to order –

Please send either a cheque/PO made payable to 'Bruce Smith Books Ltd' to the address left. Alternatively call our Credit Card Hotline quoting your name and address, credit card number, it's expiry date and your daytime telephone number. First class postage *free* in the UK. Postage £3 per book (Europe), £6 per book elsewhere.

Please send to: Bruce Smith Books Ltd (CUS), FREEPOST 242, PO Box 382, St. Albans, Herts, AL2 3BR.
I enclose a cheque/PO for £............**Alternatively charge my Visa/Access/Mastercard: £**....................
Number: ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ **Expiry Date:** ....
Name. ....
Address. ....
....
....................**Postcode.** ....

Please rush me the following books:
....
....
....
....
....

BSB
Bruce Smith Books

excellent
ows
plied to

£3.50
£3.50
£3.50
£3.50
4.50
4.50
£4.99
0£3.50
sh£4.50
3.50
4.99

ed Fish
ting is
0)

Scope1-22

nger
F software
g;Octamed

al Orders/
ts.

see us
rket,
oton

only
r 140
estab-
S.
hrough
e ideas
ies are
so the
ssed in

DOS2,
exploit
puting

ence

mming
unt of
AMOS
es, red
his the
ccess

d and
ning is
which
eciate.
Ed.)

NE
55
atch
shops

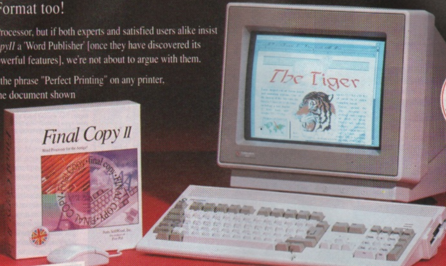
able to
left.
uoting
er, it's
umber.
ge £3
ere.

Who says Final Copy II is the Best Word Publishing Program?

Not *just* thousands of satisfied Amiga owners, but Amiga Format too!

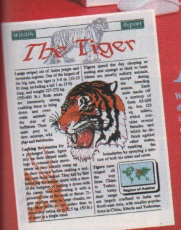
We call it a Word Processor, but if both experts and satisfied users alike insist on calling *Final CopyII* a 'Word Publisher' [once they have discovered its unique blend of powerful features], we're not about to argue with them.

Final Copy coined the phrase "Perfect Printing" on any printer, and we mean it... the document shown below proves it! We hope you too will find that *Final CopyII* is Perfect for *your* printing!



UK SUPPORTED VERSION
For the U.K.
BRITISH-ENGLISH SPELLING DICTIONARY & THESAURUS

Please look for a UK logo on the box as your guarantee of technical support and future upgrade offers. British-English, French and German versions available worldwide.



Wildlife Report

The Tiger

Large striped cat of Asian jungle and mountain regions. One of the largest of the big cats, the tiger is 3-4 m. (10-13 ft) long, including a tail 1 m. (3 ft) long, and weighs 227-272 kg. (500-600 lb.). Both sexes are immensely strong, enabling them to bring down and overcome animals the size of buffaloes. Their main prey is deer, antelope, wild pigs and bushbucks.

Lacking the stamina for a prolonged chase, tigers rely on their striped markings to conceal their movements as they silently creep up on their victims before making a sudden rush from behind. They kill by first knocking the animal down with a blow of the forepaw, or pulling it down with the claws, then suffocating it with a powerful bite at the neck or throat. Tigers swallow meat in large chunks, rather than to and eating up to 22.5 kg. (50 lb.) of meat in a single meal.

Tigers spend the day sleeping or resting and emerge at dusk to hunt. Males are usually solitary animals, except during the breeding season. Each male marks off a territory of from 65-650 sq. km. (25 sq. miles), which contains several females and which he defends against other males, marking the boundaries by spraying a mixture of both his urine and scent.

Tigers once ranged all the way from China to Turkey, but today their range are largely confined to India and South-east Asia, with smaller populations in China, Siberia and Turkestan.

Region of Habitat

Final Copy coined the phrase "Perfect Printing on any Printer". We mean it - this document proves it!

Created in Final Copy II and printed on a standard 24-pin Citizen, it shows a small number of Final Copy II's features: Smooth Scaleable Outline Fonts, Multiple Columns, Drawing Tools for Boxes, Borders, Shadows, Lines and Arrows, White-Out Text, Text Printed over Graphics, Text Obliquing, Auto-Flow Text around Graphics and of course, Import of Colour/Mono Graphics Pictures.

Final CopyII

£99.95 or less
Release 2.0 (AGA)

Word Publishers go beyond simply producing normal letters and documents (at which *Final CopyII* naturally excels) and progress into a world where how the whole document looks is just as important as what it says. Admittedly, this can be achieved with Desk Top Publishers, but they can't easily be used as Word Processors, especially when a good looking letter needs creating quickly - they're far too cumbersome. This is where *Final CopyII* offers the perfect balance between the two requirements. Ease and speed of use, combined with complete control and perfect final printed presentation. **Complete control over how documents look, now YOU have it at your finger tips on your Amiga!**

Features include:
On-Screen Drawing Tools for generating boxes, borders, and lines or arrows at any angle, Multiple Newspaper Style snaking columns, combined with the unique ability to use the same PostScript outline fonts - on absolutely any printer in portrait or landscape. Text Auto-Flows around graphic objects and imported pictures, which can be placed anywhere, scaled and cropped, with no loss of printing quality. Text can also be printed actually over graphics (refer to "The Tiger" heading on our document).All these features mean that no matter what you may have thought, no other Amiga Word Processor has all the capabilities that *Final CopyII* users now simply take for granted!

We don't have room to list EVERY feature that *Final CopyII* can boast, so please call for your free DETAILED information pack now.

SoftWood - Quality software for your Amiga

With Final Copy II you're not just getting a one off product! SoftWood are acknowledged as the World's leading software company who develop for the Amiga, and no other system. Once you're a registered SoftWood product owner, you'll be gaining access to unlimited free technical support (others charge), and preferential upgrades to new versions of this and other exciting products being developed right now!

Compatible with all Amigas from A500 to latest A1200/A4000 ranges with either second floppy or hard drive.Minimum 1Mb. available free RAM required (A600 hard drive - 1.5Mb). As with all advanced graphical programs, extra memory (eg. 1.5/2Mb. - more the better) is required to exploit all features.

Available from all good Amiga Software Dealers,
or contact your nearest SoftWood Agent for a list of stockists in your country....

SoftWood Products Europe - UK
PO Box 19 Alfreton Derbyshire DE55 7BP
Tel: 0773 836781 Fax: 0773 831040

TupSoft - Australia/New Zealand
9 Miller Avenue Hornsby NSW 2077
Tel: (02) 477 5353 Fax: (02) 476 5736

VEM (Essonne Mailing) - France
14 rue de Bois Sauvage 91055 EVRY Cedex
Tel: (1) 64.97.96.54 Fax: (1) 69.91.19.25

Amiga Oberland - Germany
In der Schreithohl 5 W-6242 Kronberg 2 Frankfurt
Tel: 06173 65001 Fax: 06173 63385

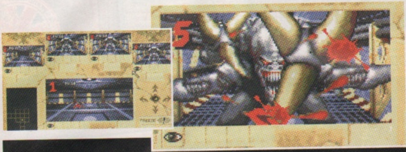
Please rush my personal copy of the detailed Final Copy II information pack, including samples from popular printers, and a list of stockists to... (clip the coupon or call 0773 836781 now!)

Name & Address:

All registered trademarks acknowledged, other product names are the property of their respective owners.

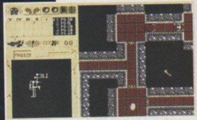
SPACE HULK

If you're in trouble. If nobody else can help and if you can get him out of bed, maybe you could hire Tony Dillon.



Left: The start of the mission and all's well. Not for long though. these Genestealers have a tendency of sneaking up very quickly.
Right: You should have kept your eyes peeled! This is the last thing you'll probably see.

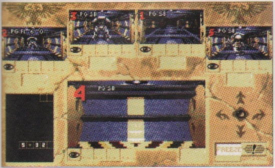
'Don't make me angry. You wouldn't like me when I'm angry.' OK, so it isn't that kind of *Space Hulk*, but the fact still remains that not many people do like me when I'm angry. I shout a lot and throw things about. All in all, I can get fairly frightening and imposing, which is probably why I relate so well to Electronic Art's stunning new space-bound escapade.



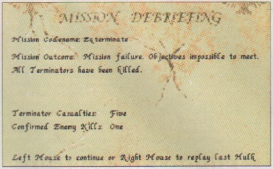
In map mode you can see the Genestealers approaching. It's usually too late, though.

WATCH OUT!

At first glance, five characters seems a lot to be controlling on your own, particularly in an environment where reflexes are everything. The idea of watching everyone's back at once makes everything far too daunting to be playable, so those clever people at EA came up with *Overwatch* – a limited form of artificial intelligence. With *Overwatch* on, any troops who are moving around under orders rather than direct control will blast doors open, as well as open fire on any Genestealers approaching, leaving you free to, well, watch them. However, they don't fire as quickly or as accurately as when you are directly controlling them, so when you hear the sound of gunplay, quickly change to the character firing and take over. It's the only way. You can turn off the *Overwatch* if you want, but who would want to?



Doors can be opened by either shooting, or by just walking up and knocking.



MISSION DEBRIEFING

Mission Codename: Exterminate

Mission Outcome: Mission failure. Objectives impossible to meet. All Terminators have been killed.

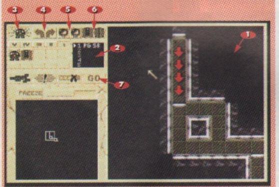
Terminator Casualties: Five

Confirmed Enemy Kills: One

Left Mouse to continue or Right Mouse to replay last Hulk

Here is your mission debriefing in all its glory.

EASIER THAN EASY AMOS



This is the planning screen where most of the strategy takes place. It might look a little confusing at the moment, but using it is easier than loading a PC game. The overhead map (1) lets you look around the entire map, with all located Genestealers shown. You can issue up to five orders at once to each troop, which are listed in the orders box (2) with all commands taken from the icons at the top of the screen (3-6). In case you're wondering, the orders available are (3) Move, (4) Turn left/right, (5) Fire weapon 1/2, (6) Open/Close door. When all commands have been issued, clicking on the start icon (7) gets everything rolling. Easy? Well we think so.

REMEMBER, REMEMBER...

Remember Gremlin's *Space Crusade*? Of course you do and if you can remember that, you'll also remember that it was based on Games Workshop's boardgame of the same name, where you took a small group of Space Marines™ and walked them through gigantic alien spacecraft, completing missions and blowing away aliens. It's all good fun, and an excellent exercise in low-scale strategy. *Space Hulk* comes from the same series of games, but no amount of *Space Crusade*, not even the extra missions disk could have prepared me for this.

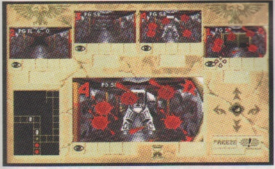
The game is set far into the future and tells the tale of a collection of warriors called the Terminators, who have been specially bred and equipped to deal with a new form of alien. Forget *Space Crusade*'s Soul Suckers and Dreadnaughts – they're eight-stone wimps compared to Genestealers. These things are so tough, that the first time a platoon of Space Marines bumped into them, they were wiped out completely. And the second. And the third. Do you get my drift?

In this future the only way to travel interstellar space is to enter something called The Warp. This parallel universe compresses distances but is extremely dangerous to travel in. The main reason being that it's full of Genestealers and other more unspeakably horrific malevolent alien entities. Sometimes ships are damaged or lost and become infested with aliens. When the ships jump back into normal space they're carrying a cargo of vicious killer aliens just itching to decimate the nearest planet. I told you they were mean. That's why you get to control up to 10 Terminators over dozens of missions against these things. Well, everyone likes a challenge.

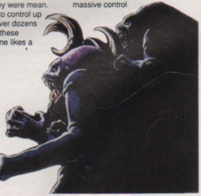
DISMEMBER, DISMEMBER'

There's a lot to *Space Hulk*, most of it contained in the huge number of missions, ranging from just getting one Terminator from one side of a map to the other, right through to wiping out dozens of aliens and destroying most of the Hulk at the same time. I counted over 50, including the extensive tutorial missions, which show you how the game works, as well as giving you a chance to develop your strategies and playing style. It's a very difficult game to describe in summary. In a way, it's a mix of every game genre there is, from arcade action to adventure to strategy. It might seem a little difficult to envisage a game like that, so stick with me and I'll explain.

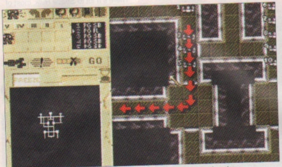
First off, you have the arcade element of the game. If I did a Mystic Meg and asked you to close your eyes and then pick a screen shot on this page that 'leapt out at you', chances are you'd go for one of the big ones with the huge slobbering alien crawling all over it. This is the arcade section of the game. Each mission is laid out in a similar style to *Space Crusade*, with large corridors leading in and out of massive control



Those blobs or flecks of blood mean that you're actually being hit from behind. It's really disgusting isn't it?



» rooms, with one major difference. It's all viewed in moving first-person perspective, in real time. None of the nancy 'turns' that most people seem to go for. Next to the large picture in the middle of the screen shot, you'll spot four arrows and a circle. These are your controls, and with these you have to move around the complex blowing away all the aliens that come at you. In a way, this game owes a lot to the old license of the movie *Aliens*. Not the crap *Aliens US*, that had a couple of nice graphics but little in the way of suspense. No, the UK *Aliens* game, where you never quite knew where the aliens were, and jumped out of your skin as soon as you saw one coming. Picture *Dungeon Master* and throw in a bit of *Jacob's Ladder*, and you should get some idea of exactly what kind of atmosphere this game piles on.



With the planning screen, moving your characters about couldn't be much easier.

FIND THE MAGIC TREE

Secondly, there's the adventure side of the game. As I've already said, there are loads of missions for you to play, and these are broken down into definite groups. Some are training missions, some are the original missions that came with the boardgame, some are new missions and some belong to the Deathwing Campaign. Once you have mastered the game, and that's something that'll take you quite a long time, you can try your hand at a real mission. This 21-mission adventure takes you all the way through a war against the enemy, from landing on the Hulk to eventually destroying one of the toughest enemies seen on a computer game. For each mission a member of your team survives, they earn experience points, which obviously improves their general combat skills. There's no point going into one of the later battles with an inexperienced team, so the pressure to keep the same team going adds some real involvement to the game.

Finally, and most importantly, there's strategy, and this is where everything ties together. To all intents and purposes, *Space Hulk* is a strategy game, but like no other. It proves the maxim that no battle was ever won by plans, and no war was ever won by action alone. OK, so it isn't a well known maxim, but that's how it goes, word for word. I just made it up. With a separate planning screen, you can issue orders to each of your troops to go to certain locations and do specific things. Were this less of a game, you would be able to play the entire game from this screen, but the problem is that this screen just doesn't give you the chance to exercise your reflexes. The arcade segments do, and believe me when I say you're going to spend a long time learning when to flick between the two, or just how to stay alive long enough in a mission to actively use both. This is a very, very tough game to beat.

BRRRR!

You may have noticed the 'Freeze' button on some of the screenshots here. This, as you can no doubt guess, freezes the action and lets you think about your next move. It isn't, however, a pause button. Yes, it has all the properties of a pause button, in so far as it completely stops game time, but the big difference is that is has a limited use. Immediately below the button is a small bar which shows you how much 'Freeze Time' you have, and when the game is frozen, this bar ticks down quickly. Thankfully you can recharge it when playing in real time. Even having a breather has its pressures in this game!

ALL TOGETHER NOW

So, let's put all three segments together and see how the game works. At the start of the mission, you are given your basic brief, and then a more detailed one (see panel). Depending on the mission, you may then be asked to select your team and arms. With all out of the way, you start the game in 'Freeze' Mode (see panel). Quickly flipping to the planning screen, you scan around the map, checking the locations of the Genestealers in relation to you, and look for the safest route to your destination. From this point, you can do two things. You can either send all your troops to strategic positions – covering likely enemy entrances for example - or you can go into action mode and move the troops about manually, picking off aliens as you come across them. Although the second system is more satisfying initially, the first is far more rewarding, particularly when by some fluke you manage to corner a dozen Genestealers and pick them off with ease, if only so that you can tell everyone you did it intentionally. Moving troops in the planning screen is easier, and allows you more room for clever tactics, but that doesn't mean you can sit back and watch everything go to plan!

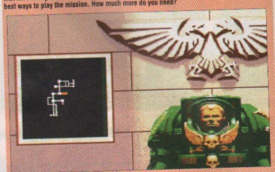
The presentation on *Space Hulk* is amazing. Visually, it's superb, with the dimly-lit corridors making the more claustrophobic among us itch. Sure, there's a scanner there for us to check the location of any aliens, but that doesn't stop you jumping when one rushes across one of your troop's field of vision. Everything is laid out in a sensible way, and actually controlling the game is a doddle right from the first time you play. Just as well really, as it takes so long to actually settle down and start playing it properly.

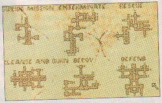
SOB STORY

It is very hard to sit down and review a game like this, because there are so few points of comparison with other games. I could try to compare it with *Space Crusade*, but this has a lot more action than that. I could try and compare it to Dungeon Master, but there's much more strategy. All I can say is hang the comparisons, and rush out to buy it as soon as it hits the shelves. Unless, of course, you have a weak heart, no head for fear or value your social life too much. CU

SHOW YOUR BRIEFS

Every one of the 51 listed missions in the game is extensively explained and briefed, first with an overview of why the mission is taking place, and then this guy explaining the rest in detail. You are told at which point your troops are deployed, where they have to get to, and the likely entrance points of Genestealers. It might not tell you everything, but you get enough information to begin planning your strategy long before you've loaded the actual mission. If that isn't enough, there are more details in the enclosed mission booklet, plus hints on the best ways to play the mission. How much more do you need?





EA £25.99

A500 ☑ A500+ ☑ A600 ☑ A1200 ☑
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

**ELECTRONIC ARTS, LANGLEY BUSINESS CENTRE, 11-49 STATION RD,
LANGLEY, BERKSHIRE SL3 8YN.
TEL: 0753 549442**

RELEASE DATE:	OCT 93
GENRE:	STRATEGY
TEAM:	EA
CONTROLS:	MOUSE
NUMBER OF DISKS:	3
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	YES
MEMORY:	1Mb

GRAPHICS	85%
SOUND	85%
LASTABILITY	87%
PLAYABILITY	89%

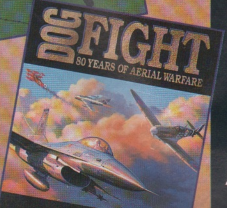
> *This will test every level of your gameplaying ability.*

OVERALL 87%

DOGFIGHT

80 YEARS OF AERIAL WARFARE

The thrill of pure face-to-face air combat



Dogfight is the first pure air combat simulation from MicroProse: one-on-one action, duelling for supremacy in famous aerial conflicts. Eighty years of air ace skills crammed into one game. From a WW1 Fokker Triplane to a modern Fighting Falcon, you'll experience heart-thumping thrills as your enemy closes in on your 'six'. There's no room for errors; one wrong move and you're history!

Dogfight features twelve legendary fighter aircraft. Each with their correct flight characteristics and authentic fully functioning cockpits across six accurate historical scenarios. In addition, you can plan missions and allocate other aircraft for air attack, support, patrol and defence operations. Plus a bonus 'What If' mode: find out if a Spitfire can outmanoeuvre a MiG-23!

Have you got what it takes to be Number One? Can you push yourself to the limits, calculate the risks and use your initiative without being reckless or foolhardy?

How good a pilot are you? Find out in Dogfight!

Available for IBM PC Compatibles and NOW for the Commodore Amiga.

MicroProse Ltd.,
The Ridge, Chipping Sodbury, Avon BS17 6AY.
Tel: 0666 504399

MICROPROSE®

Seriously Fun Software

3.5" DSDD DISKS QTY'S 100+ 35P EACH

QTY'S BELOW 100 @ 37P EACH

100% GUARANTEED INCLUDES LABELS AND VAT

ACCESSORIES AND JOYSTICKS

100 CAPACITY DISK BOX 3.5"	£ 4.75
50 CAPACITY DISK BOX 3.5"	£ 3.50
QUALITY MOUSE MAT	£ 2.50
ROBOSHIFT MSE/JST SWITCH	£12.95
3.5" CLEANING KIT	£ 1.95
AMIGA REP. MOUSE	£12.95
AMIGA EXTERNAL DRIVE	£52.95
A500 0.5MB RAM UPGRADE	£19.95
A500+ 1MB RAM UPGRADE	£34.95
A600 1MB UPGRADE	£39.95
MOUSE POCKET	£ 1.50
GREYSCALE SCANNER	£99.95
ACTION REPLAY MK III	£57.95
A500 DUST COVER	£ 3.50
A600 DUST COVER	£ 3.50
A1200 DUST COVER	£ 3.50
ROLL OF 200 LABELS	£ 1.95
ROLL OF 1000 LABELS	£ 7.95
TRACTOR FEED LABELS (1000)	£ 9.95
PYTHON 1M JOYSTICK	£ 9.95
MAVERICK 1M JOYSTICK	£12.95
COMP PRO. STAR J/STICK	£13.95
COMP PRO. EXTRA J/STICK	£13.95
CRUISER BLACK J/STICK	£10.95
CRUISER MULTI J/STICK	£10.95
SPEEDKING A/F J/STICK	£10.95
STARFIGHTER 3 PAD	£12.95
ZIPSTICK A/F JOYSTICK	£12.95
S/KING ANALOGUE J/STICK	£12.95

PRINTER RIBBONS

STAR LC10/20 BLACK	£2.25
STAR LC10/20 COLOUR	£6.95
SATR LC200 BLACK	£2.95
STAR LC200 COLOUR	£7.95
STAR LC 24-10/200 BLACK	£2.95
STAR LC 24-10/200 COLOUR	£8.95
CITIZEN 120D BLACK	£2.75
CITIZEN SWIFT 9/24 BLACK	£2.75
CITIZEN SWIFT 9/24 COLOUR	£8.95
PANASONIC KXP 1080/90	£2.75
PANASONIC KXP 1123/24/80	£3.35
AMSTRAD PCW 8256/8512	£3.75
AMSTRAD PCW 9512	£2.95
AMSTRAD DMP 2000/3000	£2.75

SPECIAL OFFER

200 x 3.5" DSDD DISKS
PLUS 2 x 100 CAPACITY BOXES £76.95

CABLES

AMIGA TO SCART	£9.95
MOUSE JOYSTICK EXT.	£5.95
JOYSTICK EXTENDER	£5.95
DISK DRIVE/MOD EX.	£9.95
NULL MODEM	£9.95
ANALOGUE ADAPTOR	£5.95
PARALLEL PTR. CABLE	£7.95

AT OUR RETAIL OUTLET WE HAVE TONS OF SOFTWARE ALL AT DISCOUNT PRICES

AMIGA A500 PLUS PACK £199.95
INCLUDES - MODULATOR. PSU. MOUSE. MANUALS. DISKS. PYTHON 1M JOYSTICK

AMIGA A1200 STAND ALONE £384.95
INCLUDES - MODULATOR. PSU. MOUSE. MANUALS. DISKS. PYTHON 1M JOYSTICK

3.5" HIGH DENSITY DISKS 58p for 100+ 60p BELOW 100

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE E. & O.E.

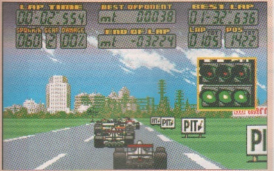
CHEQUES P/O'S TO:-
MICROMANIA DEP'T CUA
74 OLDBURY ROAD
ROWLEY REGIS, WARLEY
WEST MIDLANDS B65 OJS

PLEASE ADD £3.50 P&P PER ORDER

ORDER HOTLINE 021 559 1002

CALLERS WELCOME AT OUR SHOWROOM

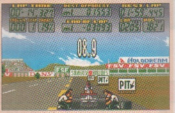
ACCESS MasterCard VISA



And they're off! [*Hang on – isn't that horse racing? Ed.*] Anyway, wait for the green light and then smash your way through the opposition.

F17 CHALLENGE

TEAM 17 OUT NOW £12.99



Unfortunately, one collision too many and it's off to the pits for you. Cars with higher damage ratings fare less well in the race.

There are few decent racing games available on the Amiga. The difficulty most programmers face is finding a fine balance between realism and playability. Either you get a game bristling with detail which runs very slowly or a super fast scroller almost devoid of any recognisable features. Against this difficult background, Team 17 decided to release *F17 Challenge*, their second made-for-budget product.

The game centres around the F17 World Championship and is set over 16 circuits. You are up against 21 computer-controlled drivers, all eager for a slice of glory. Once you have chosen one of four cars available – each with their own unique characteristics – you can then opt to practice on some fictitious circuit to hone your driving skills or race on an actual track to get the hang of the bends. Of course, if your name is Nigel Mansell, you could simply choose to plunge wheels first into the excitement of the World Championship itself.

The car choice may not seem too important at first but once you've chosen a car you're stuck with it for the duration. This can cause problems when the weather changes. In actual Grand Prix racing when it takes a turn for the worse the mechanics simply whack on a set of slick tyres designed for driving in the rain. Here, you're stuck with whatever the car has already. So, if you end up competing in the rain, you may wish you'd chosen the one with better handling rather than the speed demon model.

When you take part in a race you're given the choice of either qualifying or not. It's advisable to go for the qualifying race, otherwise you'll end up at the rear of the field when the real race starts.

LAP TIME
BEST OPPONENT
BEST LAP
END OF LAP
LAP
POS

The graphics, though fairly basic, have the usual polish that we've come to expect from Team 17. There are some nice touches like the sparks that fly out from under the car as it bottoms out at the base of a dip. The animated mechanics in the pits are good as well. The in-game soundtrack is racy and adds a bit of pace to the visuals.

The whole thing zooms along at a cracking pace and, despite the lack of great detail, you'll soon find yourself gripped by the action. If you remember that *F17* was designed specifically as a budget game there's little to fault it. In fact, I'd say that it's the best budget title I've seen in some time. How- ever, compared to other racing sims now available on budget, it does seem a trifle shallow. It's initially addictive but it lacks any real long term appeal.

Jon Sloan

79%

GEAR WORKS

SOFTWARE BUSINESS OUT END SEPT £19.99

Puzzle games come and go, with few making a lasting impression. Fewer still reach the exalted heights achieved by that classic, *Lemmings*. *Gear Works* is unlikely ever to be referred to in the same sentence as that game but that doesn't mean it's not worth a quick five minutes.

The aim of the game is to convert 12 Wonders of the World into massive clocks. Quite why you're supposed to do this isn't made clear but who cares?

Anyway, you build the inner mechanisms of the clocks by placing various gear wheels in a linked chain from the left hand side of the screen to the right. The gears themselves come in three sizes and are handed out in a random fashion.

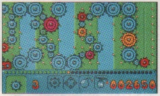
The trick is to place them all in a pattern that'll enable the red one on the left to turn the one(s) on the far right. It sounds easy enough till you realise that you've got to hang them on one of the pegs that cover the backdrop. AND that the pegs' patterns become increasingly difficult the higher the level. Have you got that? Yes, Good.

Well, if that wasn't hard enough, you're also up against a timer which speeds up with every linked gear you place. To really add suspense there's even a couple of gremlins which delight in jumping around the screen rusting the gears and breaking off the pegs.

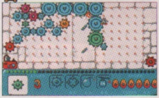
Fortunately, there's a bank of icons below the play area where you can change your cursor to a gunsight to blow them away.

Alternatively, there's an oil can to free rusted gears and a bomb to blow up badly placed ones. Supplies are limited though and can only be increas- ed when you've accumulated enough points to allow you to play on an intra-level slot machine.

Initially, I wasn't too impressed by *Gear Works*. The graphics are not great and the in-game tune grates on the nerves after a while (you can turn it off). The difficulty curve seemed far too low at first but I soon realised that the later levels are much tougher. You actually have to plan ahead and really study the peg layout instead of just linking one gear after another.



This one takes a bit of figuring out. The pattern basically follows a sinuous curve, so save your big gears for the top and bottom connections.



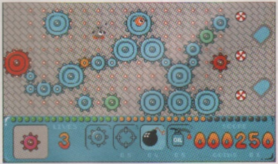
Level two and things are beginning to get tough. A bit of judicious blowing up is called for here after my gear chain has gone awry.

The game's far from being a classic and is unlikely to keep dragging you back session after session.

It may be overpriced at £19.99 but, if your pocket can stretch that far, give it a try.

Jon Sloan

71%



On level one things aren't incredibly difficult. The pegs cover most of the backdrop so the route is up to you.

New Horizon Computers

THE HARD DRIVE SPECIALIST

AMIGA 1200/HARD DRIVE

THIS MONTH'S SPECIAL OFFERS

80 MEG
£465.00
INC VAT & DELIVERY

40 MEG
£389.00
INC VAT & DELIVERY

Other
Sizes Available
Call for Latest Prices

INCLUDES 2 YR EXTENDED WARRANTY

HARD DRIVE DIY KITS FOR A1200 OR A600

INCLUDES HDTOOLBOX AND INSTALL3.0/2.0

PHONE FOR LATEST LOW LOW PRICES

20, 40, 63, 80, 85,128,137 & 210 Meg In Stock Now !!!

☆☆☆ INSTALLATION ☆☆☆

New Horizon will collect your Amiga, fit the drive of your choice and deliver it back to you within 48 hours. Full 12 month RTB Warranty on your Computer when we install the drive. Wang UK carry out our repairs. Phone our Sales Hotline for further details.

☆☆☆ SPECIAL OFFER ☆☆☆

A1200 BLIZZARD

32 BIT TRAPDOOR MEMORY AND FPU ACCELERATORS

Includes Real Time Clock and Zero Wait State Memory

MODEL	CONFIGURATION	PRICE
A1200/4	4 MEG 32 BIT FAST MEMORY	£ 169.00
A1200/4A	4 MEG PLUS 14 MHZ 68881	£ 218.00
A1200/4B	4 MEG PLUS 20 MHZ 68882	£ 248.00
A1200/4C	4 MEG PLUS 33 MHZ 68882	£ 268.00
ADD4	ADDITIONAL 4 MEG MEMORY	£ 149.00

MONITOR SELECTION

MODEL	SIZE	DOT	RES	SOUND	SCAN	PRICE
Philips 8833 Mk II	14"	.31	LOW	YES	15KHZ	POA
Commodore 1084 ST	14"	.31	LOW	YES	15KHZ	POA
Commodore 1960	14"	.31	MED	NO	MULTI	POA
Commodore 1940	14"	.39	MED	YES	DUAL	POA
Commodore 1942	14"	.28	MED	YES	DUAL	POA
Microvitec Cubscan	14"	.31	MED	NO	MULTI	POA
New Horizon Vanilla	15"	.28	HIGH	NO	MULTI	POA
New Horizon Vanilla	17"	.31	HIGH	NO	MULTI	POA

HOW TO ORDER

☎ 1. By Phone. Ordinary Delivery inclusive. Next Day Delivery on small items please add £5.00. Next Day Delivery on Computers, Monitors and Printers add £12.00.

✉ 2. By Post. Send a cheque or Postal Order made payable to New Horizon Computers and post with your Order to -

New Horizon Computers (Mail Order)
High Hope, Lea,
Ross on Wye, Herefordshire, HR9 7LN

CREDIT CARDS WELCOME VISA

SALES HOTLINE 0989 750260 TECH SUPPORT 0989 750337

CUT, TICK & POST

TELEPHONE 0702 466933 FAX 0702 617123
PD SOFT 1 BRYANT AVE, SOUTHEND-ON-SEA, ESSEX, SS1 2YD

☐ PD-Soft Font Disk 01
hanBold AachenLight AARCOVER jutant Agate Albatros Alexandria americanuncial Architect besiteplain AlexAntiqua

☐ PD-Soft Font Disk 02
Arctic2 Ariston Ashley Arthur Arvisa AvantGarde Baskerville BauhausBold BauhausLight BauhausThin BeckerMedium BEDROCKLIGHT BEESWAX BEFFLE BenguiatBold BenguiatLight BellBottom Benjamin BENJAMINCAPS

☐ PD-Soft Font Disk 03
BILLBOARD BINNER BIZARRO Blackboard BlackForest BLADES BlippoHeavy Bodacious BodilyBold BorzoiReaderBold BorzoiReaderItalic BorzoiReaderPlain BUBBLE BurlObli Cairo

☐ PD-Soft Font Disk 04
Camberic Canoith CascadeLight rowayBold CHILLIPEPPER CaslonLight ChiTown CAVEMAN Chancery CharlieChan

☐ PD-Soft Font Disk 05
Cloister Cochin Columbus Crillee COMARO CRACKLINGFIRE CooperHighLight COTTONWOOD CSDBlack Cunieform Dauphin

☐ PD-Soft Font Disk 06
Daytona Debussy DEVANDRA DickensBold Dickens Deigollight

☐ PD-Soft Font Disk 07
legate DIGITALROMAN DubielItalic DINERFAT DINEROBESE Dubiel Dorovar DorovarItalic DoblinScript DrafterLight DUPUYHEAVY DUPUYLIGHT DUPUYREGULAR

☐ PD-Soft Font Disk 08
EDDACAPS EIRE ElbjergScript Elgarrett ELIZABETHANN ENGRAVERLIGHT ErasBlack EstroFont Eurostile Faktos FARQUHARSONFREE

☐ PD-Soft Font Disk 09
FetteFraktur Flemish FlemishItalic FloraBold FLINTSTONE Fremont FlorenceLight Flora FranklinGothicBold FranklinGothicLight FrankTimes FrizQuadrataBold FoxTrot FrizQuadrataThin

☐ PD-Soft Font Disk 10
FusionBold FuturaBold Futura FuturaBold Futuri Gallieus Gordon GenoaItalic Gismonda GothicShadow

☐ PD-Soft Font Disk 11
GoudyHundred GoudyMedieval GOUDYTWENTY GraphicLight GREEKCAPS Gregorian GRDENING Harloe Harquil Harrington

☐ PD-Soft Font Disk 12
Eartings HEADHUNTER Heidelberg Helvetica HelveticaOblique Hermosa HOLTZSCHUE HORSECAPS Hotshot Howers HowardFat HowardThin INLANDLASER Inkabod

☐ PD-Soft Font Disk 13
hanBold AachenLight AARCOVER jutant Agate Albatros Alexandria americanuncial Architect besiteplain AlexAntiqua

☐ PD-Soft Font Disk 14
Arctic2 Ariston Ashley Arthur Arvisa AvantGarde Baskerville BauhausBold BauhausLight BauhausThin BeckerMedium BEDROCKLIGHT BEESWAX BEFFLE BenguiatBold BenguiatLight BellBottom Benjamin BENJAMINCAPS

☐ PD-Soft Font Disk 15
BILLBOARD BINNER BIZARRO Blackboard BlackForest BLADES BlippoHeavy Bodacious BodilyBold BorzoiReaderBold BorzoiReaderItalic BorzoiReaderPlain BUBBLE BurlObli Cairo

☐ PD-Soft Font Disk 16
Humaine Madeleine MANZANITA MarkerFeltThin MarkerFeltWide athMajor McGarey MEDICI Medusa MESOZOICGOTHIC roTiempo Nights MicroSerf

☐ PD-Soft Font Disk 17
Middleton Mira Mistral MonotonyBook Mystical Navert NewBaskerville NewBold NewGannett

☐ PD-Soft Font Disk 18
NewCentury NewsGothic NewsGothicBold Nordic NovareseBK Olympia NovareseBKItalic OldEnglish OldeWorldBold OregonDry OregonWet Orleans

☐ PD-Soft Font Disk 19
aldBlack OswaldGrey PalatinoBold ParadisLight Parisian PARISMETRO PeignotLight Phoenix PigNose elScreen Pixie PoloSemiScript

☐ PD-Soft Font Disk 20
PlayBill PostAntiquaLight PostAntiquaRoman POSTCRYPT PresentScript rabbiEars RockinghamScript Revued RevueThin

☐ PD-Soft Font Disk 21
Richard Murray Riverside Rickshaw ROCKMAKER Roissy RoissyBold RoostHeavy Rudelsberg Sailor SansSerif Schwartwald SEGMENT Sharktooth

☐ PD-Soft Font Disk 22
SHOWBOAT Silicon Slant Stathf Slogan SMOKIENITALIC SNYDERSPEED

☐ PD-Soft Font Disk 23
Souvenir Squire STARBURST Style STEELPLATE STENCIL Stymie STRONGMAN Sydney STRONGMANBOLD Tempus TEJARATCHI Tekton Tempo TempoItalic

☐ PD-Soft Font Disk 24
TiffanyThin TiffanyHeavy TimesLefty Tintoretto ToulouseLautrec TOYBLOCK TRIBECA Tyme UMBRATHIN ULTRALINE UltraBlack

☐ PD-Soft Font Disk 25
UniversityRoman UtopiaBoldItalic UtopiaBold UtopiaItalic UpperWestSide VAGRounded Venus Vireo WALROD Weiss

☐ PD-Soft Font Disk 26
WHARMBY WindsorDemi Yamato WOODCUT ZALESKI ZALEMAN

PD-Soft Presents : Just Pure Fonts

The NEW Font collection. There are 26 disks within this set in two formats Adobe Type 1 or Scalable. Adobe Fonts Work have been test on Final Copy IIb, Page Stream V2.1+ and the Scalable Fonts have been tested on Professional Page V3.0, Page Setter V3.0, Workbench V2.0 and Workbench V3.0. Both types will work with loads of other Amiga packages that can take the font formats. Please State AD"" for Adobe Type 1 and SC"" for Scalable Fonts. **Prices are £3.00 Per Disk or £49.99** for a complete 26 disk set (ie 26 Adobe Type 1 fonts or all 26 Scalable fonts. Ring, Fax or SAE for a Full sized Font Update.

☐ **Adobe Type 1 Fonts** ☐ **Scalable Fonts**

ORDERING BY POST Please tick the boxes to the left of the disk numbers with a coloured pen, Hi-Lighter or just outline the disk (s) you want to order. After selecting your order please fill in your Personal details on the order form provided. CUT OUT or Photocopy this advert and Post to the Address above. Hand written orders are also acepted. Cheques & Postal orders make payable to: PD-SOFT. Ordered before please tick the Account box or just fill in your number which was on the previous delivery note.

COLLECTING DISKS You can now collect any disks at our office address 6-8 Durham Road, Southend-On-Sea, ESSEX, SS1 2YD **EEC (NON UK)** When ordering there is a min order of 5 disks please add 17.5% for Airmail postage. Eurocheques are acepted & Cheques drawn on UK Banks **INTERNATION ORDERS** Please add 20% to your order's total (Min £2.00) to cover Air Mail postage. Cheques must be drawn on UK Banks. No postal orders

Your Name A/c No
Address
Post Code Telephone
ard Card No Expiry Date
Signature I enclose cheque/PO for £

Are the prices of Amiga products about to change

?

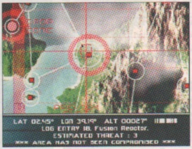
HIRED GUNS

From *Lemmings* to *Walker*, super coders DMA Design can't put a foot wrong. Closet chiropodist, Jon Sloan, gives their latest game a pedicure.

Most role-playing games set their storylines and gameplay in some mediaeval fantasy Kingdom where Princess Flatulence has been kidnapped by an evil wizard with a pointy hat. That's all well and good but after you've rescued your 20th damsel in distress, things can get a bit samey. So, where do gamers go if they want a similar game with a radically different plot?

The answer lies in Scotland, specifically in the studios of DMA Design. Some of this decade's most explosive games have appeared from their fertile brains and this latest effort looks like easily matching their established high standards.

Hired Guns puts you, and up to three mates, in control of four battle-hardened mercenaries dropped onto a remote planet populated only by psychotic mutant creatures. The planet was in the process of being terraformed when an automated production plant went haywire and started releasing mutant organisms into the environment. These creatures are now threatening life, love and the American Way and you've been hired by The Company to go in and sort 'em out – in 13 days or less. Well, it makes a change from roaming dragons and wicked witches!


LAT 02.45° LGN 39.19° ALT 00027"
LOG ENTRY 18. Fusion Reactor.
ESTIMATED THREAT : 3
*** AREA HAS NOT BEEN COMPROMISED ***

Even the campaign map has got a fractal backdrop and its own accompanying music, which is beyond compare.

IN CONTROL

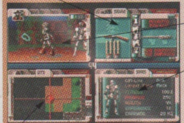
The main interface is extremely easy to grasp – just point and click. Move characters around by placing the cursor over their view window. As you move it away from the centre of the screen it will change to a directional arrow, so you can step forward, back, to the side or rotate 90 degrees.

Considering just how much information DMA needed to squeeze onto a standard Amiga screen they've achieved no small feat. Each character has four card index-type screens that can be flipped by clicking on the label. My team members below each have a different window open.

Store Screen: This screen gives you four options. Placing an object in your hands allows you to use it, pick it up or drop it or, finally, find out more about it.

Sorting through your goodies is simple; just click on the scrolling arrows.

Main View Window: From here your character looks askance at the world around him. Move the cursor around and watch it change from crosshair to directional arrow. In the top left you'll see a little portrait representing the character. In the top right there's a compass to help you navigate and above that your energy bar. Too much red and your dead!



Digital Terrain Scanner (DTS): Virtually all the team carry one of these beauties and if they don't there's a good chance that there'll be one lying around somewhere. If you haven't sussed it by now it's an auto-mapper, that tool beloved by adventurers everywhere. The main design flaw is that is doesn't show where the mutants are!

Character Statistics: This last screen is the one you'll probably use the least. It gives you all the biographical details you could want, including how fit the person is and how much experience he's got. Be careful only to check this screen when you've got a quiet moment 'cos the mutants don't stop attacking just 'cos you're taking stock.

CONTROL FANTASIES

DMA have come up with a unique four-way split screen which allows you independent control of all four characters. This is something RPGers have been screaming for – the chance to use some detailed strategies instead of the usual 'Let's all walk down this dark corridor together even though there may be a huge hairy monster at the end of it', favoured by other adventure games. You can select this option if you want to by highlighting one player as the leader so that all the others will automatically follow him.

This control interface must be one of the easiest I've ever come across. It's very intuitive and can be learnt without the need to refer to the manual. At times, though, it can be a little fiddly, especially when you're under attack. In that situation it's very easy to shoot another team member when all you want to do is run away. I've lost count of the number of times I've loosed off a few shots whilst trying to step forward just because my cursor wasn't over the correct hot spot.

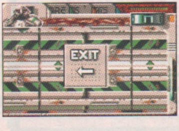
This is, though, a minor niggle with an otherwise impeccable control system.

To ease you into the action you can choose to take part in a training mission. If the campaign itself sounds a bit long-winded there's a choice of 16 short-action missions where all you need to do is make it from one end of the scenario to the other in one piece. These are actually tougher than the campaign as not only do you have to contend with hordes of creatures baying for blood you're also up against a timer.

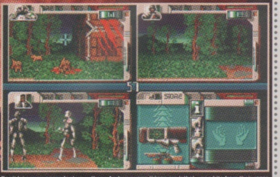
I tried *Guns* out on an '040 A4000 and found the first action game almost impossible to complete; everything was too fast for my brain to cope with. (*No surprise there. Ed.*)

MONSTER MASH

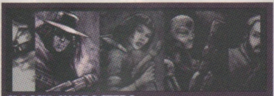
On a planet teeming with bio-engineered creepy crawlies you'd expect there to be one or two to blast. Well, you would if you'd forgot that DMA's last game involved you crushing hundreds of tiny humans under giant robot feet before mopping up the rest with a huge machine gun. To carry on that tradition *Guns* is absolutely overflowing with nasties and they all want to take a chunk out of your team. They're all generated from eggs that look like a cross between those things in *Aliens* and a pile of manure. Find these and you'll know how many creatures there are to blast. Don't let appearances fool you, though, 'cos whoever designed the creatures sure had a sick sense of humour, along with giant lemming mutants there's packs of cute little fluffy woofy Andrex puppies. Don't even think of stroking them, just blast them with



The complexes are absolutely huge which is why signs like this come in handy. They only give you the general direction though; so don't rely on them.



Don't let appearances fool you, these Andrex puppy things are lethal – one bite from their razor sharp teeth and you'll soon need some toilet paper.



CLASSY CHARACTERS

At the start of each mission you'll be given a choice of four mercs to take in with you. There's 12 heroes to choose from, ranging from Kiurcher, a 49 year-old human marksman to Miyriel Torre, a 100 year-old cyborg; each with his/her/its own special characteristics. The upside of this is that they're all experienced fighters and come well equipped. The downside is that, until you've played the game a few times, you don't know what they're carrying. I would have preferred to see a detailed inventory for each character along with their portraits or, better still, some cash so that I could choose what weapons to take.

The portraits for these tough dudes are some of the most impressive piece of artwork I've seen on the Amiga. As you can see from our screenshot, they're incredibly atmospheric and brooding. Let's see more from this artist – Jamie Grant.

your Fluorine Laser.

On the subject of weapons your team all come ready equipped with some very nifty and unusual weapons. These range from simple body-mounted chain guns to weird psionic amplifiers that can send out blasts of energy. Initially, I felt like I could handle anything but when I met a couple of mutant fish creatures it became obvious that I'd have to use every weapon available. When I realised that ammunition was finite I began to panic!

PANIC STATIONS

Hired Guns has had an incredible amount of thought put into it. Sometimes, with RPGs, it's obvious that certain sections have been rushed just to make the delivery date. Not so here, every ounce of the game has been carefully weighed and tested until only a quality product remained. The sound effects and tunes are brilliant, in fact DMA recommend that you have 2Mb of Chip RAM to enjoy them to their fullest. The graphic style is different, it's not exactly to my taste, but it is well put together. There's even an option to port your own character designs from any paint package into the game. The difficulty level is high, but not frustratingly so and the campaign game is probably the easiest to get into.

Guns is, without a doubt, a masterpiece. I started playing *Guns* over three days ago and have barely looked up from my Amiga since.

So, if you like bags under your eyes and and sweaty palms, buy a copy today. CU

PSYGNOSIS £29.99

A500 ☑ A500+ ☑ A600 ☑ A1200 ☑
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

PSYGNOSIS, UNIT 2, SOUTH HARRINGTON BUILDING, 182 SEFTON STREET, LIVERPOOL L3 4BQ. TEL: 051 709 5755

RELEASE DATE:	OCTOBER
GENRE:	RPG
TEAM:	DMA DESIGN
CONTROLS:	M, K, J
NUMBER OF DISKS:	5
NUMBER OF PLAYERS:	4
HARD DISK INSTALLABLE:	YES
MEMORY:	1MB

GRAPHICS	82%
SOUND	95%
LASTABILITY	94%
PLAYABILITY	91%

> *A fresh look at a tired genre. Challenging in the extreme.*

OVERALL 91%

HWI
think
so!

Desperate for some excitement in his sordid life, Jon Sloan flexes his joystick skills to test the long-awaited platformer from those French wonders, Hudson Soft.

YO! JOE!

There have been many benchmarks in the field of Amiga platformers. Games like *Rainbow Islands* and *Zool* have shown us all what's possible with an Amiga. Unfortunately, *Yo! Joe!* is not in the same class as those giants. That's not to say that it's bad – it is, at best, merely mediocre.

The plot contains the usual number of graphically different levels. Apparently, a gang of evil nasties has gathered together to question an all-seeing Oracle. They want to know how well their drug dealing will go next year. Even for drug dealers this bunch is weird. I mean there's Count Costrimo, a vampire; Sheebop, the half-sister of an Indian goddess; and even Professor X, a mad cyborg. The Oracle has some plans of its own however and, in an effort to avoid being locked away, tells the evil bunch that two boys must be destroyed if they are to be successful in their chosen profession. Joe and Nat are the sprogs in question and, unluckily for them, manage to find themselves lost outside Count Costrimo's castle. What a coincidence!

There are a few sub-plots involving graffiti and gang warfare, but they are even less believable than the main one so I won't dwell on them.

HOTTING UP

The aim of the game is to traverse six levels of platforms whacking as many enemy sprites as possible and collecting any treasure you may find along the way. Initially, Joe's only weapons are his feet and fists so he can punch or karate kick opponents away. Some of his opponents are pretty tough though, so he'll need to find the many weapons scattered around, such as the fast-spinning nunchakus (flails), lead piping or molotov cocktails (petrol bomb.) Only the flails and pipe are permanent once collected whilst the others need topping up, so be careful how you use them.

The main levels are varied with various types of bad guys with their own methods of attack. Level three, for instance, is set in a South American temple full of mad cannibal Incas; these guys attack you with spears, axes and boomerangs. Level four is in Japan and is strewn with ninjas popping up out of the floors and walls with knives, blowpipes, shurikens and swords.

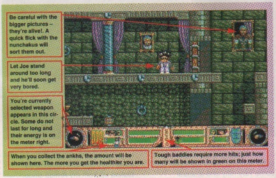
Joe is a pretty resourceful character though, and once you've found a decent weapon, the enemies can be dispatched with relative ease. The same is sadly true for the end-of-level guardians. You can easily beat a guardian without losing any energy.

ELVIS IMPERSONATOR

The game has a very polished feel and it's clear that much time and effort has been put into the sound and graphics. The sampled effects are excellent with vicious cracks and booms accompanying Joe's martial arts blows. The background music skips along unobtrusively. The graphics are quite reminiscent of that old Bitmaps' classic, *Gods*, and have a distinct French style which is hard to describe but easy to recognise. Joe himself is a well-developed lead and has some smooth animations especially when he's spinning the nunchakus. But, for some reason, Hudson Soft decided to make Joe look like Elvis, complete with white suit! Perhaps it's some kind of continental thing that I haven't cottoned on to.

It's a shame that after so much skill has been employed in the rest of the game, that very little has gone into the prolonging the gameplay. I'm not an excellent platform player but I managed to complete the whole game in one morning!

No matter how well presented *Yo! Joe!* is, you will complete it quickly. It is nothing more than a flawed attempt at producing a classic game. Wait for the budget release. CU



Be careful with the bigger pictures – they're alive!. A quick flick with the nunchakus will sort them out.

Let Joe stand around too long and he'll soon get very bored.

You're currently selected weapon appears in this circle. Some do not last for long and their energy is on the meter right.

When you collect the ankhs, the amount will be shown here. The more you get the healthier you are.

Tough baddies require more hits; just how many will be shown in green on this meter.

One magazine rated this game in the low nineties, the reviewer even claimed to have stayed up till dawn for days on end playing it. This forces me to question whether he played the game at all (unless he's got the co-ordination of a two-year old, that is.).

HUDSON SOFT £26.99

A500 ☑ A500+ ☑ A600 ☑ A1200 ☑
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

KOMPART UK, GUILDFORD HOUSE, 20 GUILDFORD ROAD, ST ALBANS, HERTS AL1 5JY. TEL 0727 868005

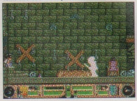
RELEASE DATE:	OUT NOW
GENRE:	PLATFORM
TEAM:	IN HOUSE
CONTROLS:	JOYSTICK
NUMBER OF DISKS:	2
NUMBER OF PLAYERS:	2
HARD DISK INSTALLABLE:	NO
MEMORY:	1Mb

GRAPHICS	86%
SOUND	88%
LASTABILITY	24
PLAYABILITY	81%

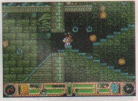
> *Enjoyable but flawed platform game.*

OVERALL 69%

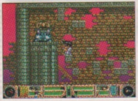
Each level has a number of tougher nasties, like this skull creature. Fortunately, Joe remembered the recipe for molotov cocktail...



There are quite a few of these stupid-looking barrels scattered around which, if touched, drain your energy.



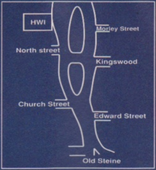
Another mid-section baddie is this pumpkin head. He's easy to beat though; just stand on this block and flail away.



HARDWARE INC

95 WALDERGRAVE RD,
BRIGHTON,
EAST SUSSEX, ENGLAND.
BN1 6GJ

IF WE CAN'T STOCK IT CHEAPER WE DON'T!



HWI

AMIGA CD 32 (OSCAR & DIGGERS)	£275-
AMIGA A1200 (SUMMER PACK)	£290-
AMIGA A4000/030 (4MB RAM 80HD)	£1050-
COMMODORE 1084 S MONITOR	£175-

AMIGA CD 32 TITLES, WE ARE THE CHEAPEST:

ALL AMIGA CD 32 TITLES NOW AVAILABLE INCLUDING: ZOOL II, JAMES POND III, PINBALL FANTASIES
500MB GAMES INCLUDING: MICROCOSM & DRACULA, PUTTY 2, T.F.X., ODESSY (EPIC II)

AMIGA ACCESSORIES BIO CON PRODUCTS

MOUSE	£17
TRACKER BALL	£28
MINI T BALL	£27
MINI T BALL LUMINUS BALL	£27
A500 ACCELERATOR 16MHZ	£110
A500 6MB RAM BOARD 2MB MOUNTED	£120
STEREO SAMPLER	£29
GENLOCK	£P.O.A.
A1200 MEMORY EXPANSION	£P.O.A.

SO ARE WE CHEAPER? WE THINK SO?

JOYSTICKS

NAVIGATOR	£13
QUICKSHOT II TURBO	£7.50
SPEED KING ANALOGUE	£12
CHEETAH TURBO FIGHTER YOKE	£41
QUICK JOY FOOT PEDAL	£19.50

LOTS MORE IN STOCK !

WHY NOT SEND OFF FOR OUR CATALOGUE !

SEND YOUR ORDER TO HWI 95, WALDERGRAVE RD, BRIGHTON, EAST SUSSEX ENGLAND,BN1 6GJ. PLEASE SEND :

(1)..
(2)..
(3)..
(4)..
PRICE.................... + DELIVERY.
I ENCLOSE CHEQUE/ P/O FOR £................
OR CHARGE MY VISA/ ACCESS
NO.................................EXPIRY...../................../..................
SIGNATURE ....
NAME..
ADDRESS..

FREE STANDARD DELIVERY . NEXT DAY DELIVERY £5.00 (MAINLAND)

To order with a credit card see coupon. By cheque make cheque to HWI (allow 3 working days to clear). Credit cards, bankers drafts and postal orders dispatched immediately.

DISPOSABLE HERO

Get your trigger finger oiled and ready once more as Gremlin prepare to fire their retaliatory shot at Team 17's *Project X*. Tony Dillon doesn't need to oil his finger; he's as greasy as they come.

There was a point, a couple of years ago, where shoot 'em ups were ten a penny. You couldn't open the review pages of a magazine without seeing '*Deathblazer*' or '*Alien Run*' or some similarly macho name staring out at you, promising the wildest ride of your life, and another joystick consigned to the bin. A lot of them were awful, but some were wonderful.

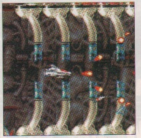
Unfortunately, the genre slipped into a coma when Mario and Sonic made their collective presence felt, and since then we've been slowly choking on a bubblegum diet composed almost entirely of sweet cartoon characters and chocolately platforms and even more sickeningly fluffy 'heroes' whom we're all expected to wear the T-shirt of.

God, it's only *Syndicate* that's kept me sane. But what's this? Could we be returned to the glorious days of 'shoot first, shoot a bit more, keep on shooting and forget the questioning'? It could be, if Gremlin's latest aquisition, *Disposable Hero*, is anything to go by. Why, it even has a stale and tacky plot! No bad thing in itself, especially when it so blatantly and pathetically tries to hide the fact that the game is nothing more than an all-out violence orgy! For those who are interested, the game is set way into the future – somewhere around the twenty eighth century, after most of the human race has been wiped out by aliens. Well, what did they expect, poking around all over the unknown universe to see if they could find life, only to start all-out war with it when they struck lucky. Now, only a small pocket of resistance is left. In a word, you, and as the *Disposable Hero*, you have to go against the might of the alien armada, across an alien landscape and wipe out all known life. Now, that is what I call a plot. Not.

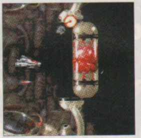
Have I made the point that it's a pure arcade blaster with little need for thought and stacks of work laid out for both your joystick and your index finger? If you thought *Project X* was tough, then you ain't seen nothing. This game throws everything, and I do mean everything, at you. The landscape attacks you. The small scaly things that crawl over the landscape attack you. In fact, anything that moves is likely to have a pop at you if you turn your back on them for a second.

Of course, the millions of alien 'things' that fly around go for the throat in a big way. To think, all you have to fight back with is a tiny little fighter with a pathetic little laser gun and your own resources. Not that that's the strict truth, of course. You can upgrade your ship's weapons and capabilities, taking this small, harmless 2CV of a craft and turning it into a gunmetal grey Capri with furry seats, a stereo with at least two dozen bass speakers and some rather nutty custom fairing. For full information on all the weapons available, check the panel on the opposite page. What that panel won't tell you, however, is how you actually manage to get the weapons.

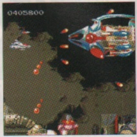
There's no money involved. You don't need to trade a single thing and you definitely don't get weapons as reward for your gun prowess. Instead, a more sensible system is employed. Each weapon and improvement requires a certain amount of power to function, and your engine is only capable of putting out a certain amount of gigawatts. In the same way, the hull only has so much room, so the trick lies in balance. You can have any weapons you like, provided that your engine has the juice to power them and there's actually room for them on the ship. Naturally, the first thing you'll need to get is a bigger engine, after which you can quite comfortably fit a



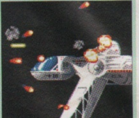
Everything and everyone is gunning for you.



More bolt-on extras than *Xenon 2*! Believe it!



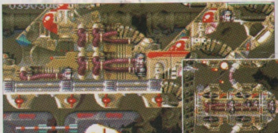
Some serious joystick waggling lies ahead...



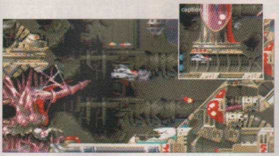
Take That! Cue girly screams...

SOUND BLASTER

Sound has always been regarded by games-players as a very important part of the atmospherics in a game, but it always seems to be sadly neglected by most software houses. *D-Hero* is different, thankfully, supplying the player with not only some superb pieces of music that sound like they've just come out of *Blade Runner*, and a collection of suitably explosive sound effects, but a mixer on the menu screen that lets you choose the respective volumes of both



This game's such a great looker I'd swop it for my girlfriend anyday. [*You're sad, Tony! – Ed*]



Turn the volume up high, turn the lights down low, and get down to some serious blasting.

three way firing cannon, an energy shield and a couple of homing missiles, which should make life a hell of a lot more violent.

The graphics are very attractive, you have to admit, but there are a few points where the finely-detailed sprites and backdrops can cause some major problems. The backdrop is made up of two components: the scenery which is purely decorative and scrolls along in the background, and the foreground obstacles, which are hard, unbreakable and completely fatal should you smash into them when you can't tell the difference between the two. The whole thing does look stunning though.

It plays well too. The ship manouvres well, and responds quickly to the joystick commands that come thick and fast in the midst of battle. Autofire is automatic, so all you need to do is keep your finger on the button to unleash a 'stream of death'. There are four difficulty levels to choose from, so the enemy are never too overwhelming, just whelming enough, and the variety of attack waves and enemy styles keep the whole thing interesting. Not the most original game ever, but a fun blast that is good for a few weeks. CU

GREMLIN £25.99

A500 ☑ A500+ ☑ A600 ☑ A1200 ☑
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

GREMLIN GRAPHICS, CARVER HOUSE,
CARVER STREET, SHEFFIELD S1 4FS.
TEL: 0742 753423

RELEASE DATE:	OUT NOW
GENRE:	SHOOT-'EM-UP
TEAM:	IN HOUSE
CONTROLS:	JOYSTICK
NUMBER OF DISKS:	2
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	NO
MEMORY:	1Mb

GRAPHICS	84%
SOUND	87%
LASTABILITY	74%
PLAYABILITY	81%

> *A fast paced, well polished shoot 'em up.*

OVERALL 79%

TOOLING UP

If it's weapons you're after, it's weapons you'll get. Here's a selection of what's on offer.

The basic, standard Pulse Laser.

The Sonic Disrupter

The Nuclear Projector

Vertical firing cannon.

Ion Deflector Shield. Saves 50% of damage.

A basic engine accelerator.

A more advanced accelerator.

A more powerful shield.

The second most powerful accelerator.

A massive accelerator.

A grenade launcher, for more destruction.

Orbiting pods swing round the ship.

A basic engine increases power.

A larger engine means even more.

How much power do you need?

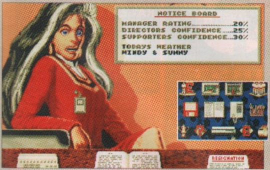
The biggest, and strongest engine.

Tracking cannons follow the enemy.

A powerful, front firing pulse cannon.

Upgrade to three way firing cannons.

Homing missiles make life easier.


NOTICE BOARD
MANAGER RATING.........20%
DIRECTORS CONFIDENCE.....25%
SUPPORTERS CONFIDENCE...30%
TODAYS WEATHER
WINDY & SUNNY

We'll support you ever more – but not if you keep losing matches [illegible]

PREMIER MANAGER 2

GREMLIN OUT NOW £25.99

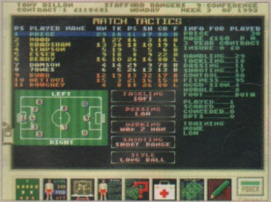
It's been said a thousand times, but football management games have really come as far as they can. There are only so many things a manager can do before it all starts getting silly, and I for one thought that Gremlin's *Premier Manager* had just about everything. When I heard they were doing a sequel, I honestly couldn't see how they could have built upon what was already there.

Seeing the finished result, I have to say that's it's more than a little overwhelming. *Premier Manager* covered every conceivable angle, from basic team management, right down to ground improvements, booking ads to go on the hoardings and full accounts control. *Premier Manager 2* has all of this, with a little bit more, and everything in so much detail it'll take you a week just to find your way around the game, let alone playing it properly.

Over eighty options let you guide your team through six different leagues, battling through six different cups against every team in Europe, while you try to keep the ground in a fit condition and keep the board of governors confident in your ability. Plus there's the bank to deal with, the scouts and coaches to work with and, of course, the matches themselves to play. I have to say, though, that it does play slightly differently to most managerial games as the focus does seem to be more on the running of the club than the actual games the team plays, leaving you with a lot more to do off the pitch than on. No bad thing, but moving a little too off centre for my liking.

It's a good game, excellently presented and well thought out, but I can still only give it an average mark, as it doesn't really do it any better than any of the other four million managerial titles that are out there. CU

75%


```
TONY DILLON            STAFFORD RANGERS    5 CONFERENCE
CONTRACT 1  £118481          MONDAY       WEEK 2  OF 1993

                   MATCH TACTICS
PS PLAYER NAME      HN TK PS SH CR F  INFO FOR PLAYER
1  PRICE            29 18 11 17 80 B  PRICE           30
2  WOOD              1 27 16  3 14 B  WAGE £160   P.W.
3  BRADSHAW         13 34 18 10 19 L  3 YEAR CONTRACT
4  SIMPSON           5 19  5  5  6 B  INSURE 0 £0
5  ESSEX             9 18  8  9 22 R
6  BERRY            16 10 24 16 80 L  HANDLING.....29
7  DAWSON            4 14 29  9 78 R  TACKLING.....18
8  JONES             6  5 26 13 13 R  PASSING......11
9  BURR             12 19 13 32 17 B  SHOOTING.....17
10 NETTOVI          15  3 21 16 15 R  CONTROL......80
11 BOUGHEY           4  8 18 26 80 L  FITNESS......95
                                      AGGR'SION....4
                                      MORALE.......8
                                      FOOT.........BOTH

                    TACKLING           PLAYED.......1
                    SOFT               SCORED.......0
                                       CONCEDED.....0
                    PASSING            DPTS.........0
                    LOW
                                       TRAINING
                    MARKING            NONE
                    MAN 2 MAN          LOW

                    SHOOTING
                    SHORT RANGE

                    STYLE
                    LONG BALL
```

You can even specify what makes of beer you can drink in the club room. Well, nearly...

ST COMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMPU

FIRST COMPUTER CENTRE (LEEDS) Tel: 0532 319444

10.3

"VOTED BEST DEALER" CU AMIGA JAN 93

FIRST
COMPUTER CENTRE

OPEN 7 DAYS A WEEK

OPEN MON - SAT	9.30AM-5.30PM
SUNDAY OPENING	11.00AM-3.00PM
THURSDAY NIGHT LATE	9.30AM-7.30PM
MOST BANK HOLIDAYS	11.00AM TO 3.00PM

◆

PREFERRED DEALERS FOR
ACORN, CITIZEN, COMMODORE, DIGITA, PACE, PRIMA, SEGA, STAR ROMBO, SUPRA, US ROBOTICS

◆

HOW TO ORDER

Order by telephone quoting your credit card number. If paying by cheque please make payable to the:
"FIRST COMPUTER CENTRE."
In any correspondence please quote a phone number & post code. Allow 5 working days for cheque clearance

- *interest credit available!*

Please phone for details

- All prices include VAT
- All hardware/computers are UK spec.

UK MAINLAND DELIVERY TARIFFS

Standard Delivery	£1.00
Guaranteed 2 to 3 day (week days) Delivery	£2.50
Guaranteed Next Day (week days) Delivery	£4.90

- Open seven days a week
- 1200 sq. ft. showroom
- Free large car park
- Overseas orders welcome

FULL REPAIR SERVICE

We offer a FREE quotation on your computer or any peripheral (monitors, printers etc.). A delivery charge of just [illegible] is charged or alternatively you can visit our showroom.

SALES & TECHNICAL

24 HOUR MAIL ORDER SERVICE 6 LINES!

0532 319444

FAX: 0532 319191

◆

FOR DESPATCH & RETURNS ENQUIRES TEL. 0532 637988

◆

SHOWROOM ADDRESS:

DEPT. CU, UNIT 3, ARMLEY
PARK COURT, OFF CECIL ST,
STANNINGLEY ROAD,
LEEDS, LS12 2AE.

◆

(Follow A647 signs from Leeds City Centre)

It is recommended that prices are confirmed before ordering goods

AMERICAN EXPRESS · SWITCH · Access · VISA · MasterCard · E

AMIGA 1200 RACE & CHASE PACK £289.99!

NOW WITH NIGEL MANSELL F1 AND TROLLS!

HARD DRIVE VERSIONS

20Mb	£379.99
85Mb	£499.99
209Mb	£599.99

The New Amiga 4000/030

Based on the 68030 processor. Complete with hard drive & 2Mb of chip RAM & WB3

only £909.99 for 80Mb version
or £969.99 for 120Mb version

◆

Amiga 4000/040 from £1939.99
with 6 Mb RAM and 120 Mb hard drive

◆

Cartoon Classics Pack..........£194.99
with Lemmings, Captain Planet, The Simpsons & D-Paint 3

AMIGA 500 Deluxe only £239.99
with built in ROM sharer 2.04/1.3

◆

AMIGA 600 Basepack now with X OUT game (LIMITED OFFER)
only £194.99!

◆

AMIGA 600 20HD The Epic pack 20 Mb Hard drive, Epic, Rome, Myth, & Trivial Pursuit, Dictionary, Language Lab & D. Paint 3
only £289.99 (Inc On Site Maintenance)

◆

The A600 Wild, Weird & Wicked
inc Micro Prose Grand Prix, Deluxe Paint 3, Putty & Pushover
Plus "X OUT" shoot em up only £219.99

A600 DELUXE	ONLY £245.99
A600 20HD DELUXE	ONLY £339.99

inc. ROM sharer with 1.3 & 2.04 ROM's making incompatibility a thing of the past. The A600 HD Deluxe comes with a Built in 20 Mb hard drive

Just add 32.99 for a 2 Mb 600 Deluxe!!

PRIMA A1200 REAL TIME CLOCK

at last now you can date and time stamp your files Fits directly onto the motherboard with no soldering.

now only £14.99!

check for compatibility

A600 & 1200's HD kits

Add £14.99 for Real Time Clock!

◆

20Mb	*£89.99	60Mb	*£179.99
80Mb	*£195.99	127Mb	*£269.99
210Mb	*£369.99		

*Just Add £10.00 for fitting

◆

All Amiga's come with Workbench, mouse & 12 month warranty. The A600's, A1200 & A4000 come with 12 months on site warranty All 1200/600's also come with a built in integral hard disk option.

THE AMAZING ZOOL PACK!

- ZOOL (97% Amiga Computing, Nov 92)
- STRIKER (94% CU Amiga, June 92),
- PINBALL DREAMS (94% AUI, Sept 92)
- TRANSWRITE word processor

only £29.99
only £19.99 with any AMIGA!

NEW! AMIGA CD32 PACK

based on the 68020 processor, the CD32 features AA chip set, A4 size footprint, 2Mb RAM, 128K flash memory, built in WB & the ability to play normal audio CD's

only £289.99

CD Rom Amiga A570

Turns your Amiga 500 into a CDTV. Includes Fred Fish CDPD disk & Sim City

now only £147.99!

PRINTERS

All our printers are UK spec.

Canon · CITIZEN COMPUTER PRINTERS · FUJITSU · HEWLETT PACKARD · THE star COMPUTER PRINTERS

All our printers come with ribbon/toner, printer drivers (if available), paper & cables!!

CANON

NEW! Canon BJ10sx Laser quality output. Large buffer	£224.99
NEW! Canon BJ200 3 page a min speed, 360 dpi, small footprint & 80 page sheetfeeder	£319.99
NEW! Canon BJ230 wide carriage version of above	£379.99
Canon BJ300 Desktop bubble jet with laser quality	£419.99
Canon BJ330 Wide carriage version of the BJ300	£464.99
BJ10 Autosheetfeeder	£52.99
Canon BJ10 cartridge	£18.99

CITIZEN NEW LOW PRICES!

Citizen printers have a 2 year guarantee

Citizen Swift 90 Colour Excellent value 9 pin colour. Highly recommended	£169.99
Swift 200 Colour Same out put as the 240 but with less facilities	£219.99
Swift 240 Colour 24 pin, 240cps draft, 10 fonts, quiet mode, 240cps.	£269.99
Swift Auto Sheet feeder	£79.99

FUJITSU

12 month onsite included except DL-1150 (12 month B T Base)

Fujitsu DL-1150 Colour 24 pin, 10 fonts, 200 CPS	£274.99
Fujitsu Breeze 100 ink jet, draft & LQ mode, BJ10EX beater	£219.99
Fujitsu Breeze 200 inkjet	£309.99

HEWLETT PACKARD

HP Deskjet Portable	only £369.99
New! HP510 mono	now £262.99
HP 500 Colour	now £319.99
HP 550 Colour 4 times faster than the HP500C!!	now £519.99
HP500 mono cartridges	£14.99
Double life 500 cartridges	£24.99

All HP printers come with a 3 year warranty

STAR

StarLC20 180 cps draft, 45 cps NLQ, quiet mode and multi fonts, push button operation.	£132.99
Star LC100 colour 9 pin colour, 8 fonts, 180 cps draft, 45 cps NLQ	£155.99
Star LC200 colour 9 pin colour, 8 fonts, 225 cps draft, 45 cps NLQ, A4 landscape printing.	£195.99
NEW! Star LC24-20 MKII 24 pin quality, 210 cps draft, 67 cps LQ, 39K buffer expandible to 48K, 10 fonts and quiet mode.	£224.99
Star LC24-200 colour Colour version with 30K buffer expandable to 62K	£264.99
Star SJ48 Bubble jet Laser quality, ultra quiet, Epson compatible & portable	£217.99

NEW! Star SJ144 Colour Thermal
Stunning affordable colour printer. 3 PPM, low running costs
only £534.99

Star SJ48 Autosheet feeder	£49.99
Star SJ48 cartridge	£18.99
Star SJ144 cartridge (pack of 3)	£42.99
Star SJ48/BJ10 Refill kit	£11.99

Laser Printers

on-site warranty standard

Fujitsu VM600 Laser 6 pages per minute, HP emulation, multi font, 300Dpi	£679.99
HP Laserjet 4L 1Mb RAM, 4 ppm, small footprint	£609.99
OKI 400e 4 page laser, mult font, 512k memory, HP emulation	£514.99
Ricoh PCL5 400 Dpi, 2Mb RAM, 5Page per minute add just £114.99 for 2 Mb of extra RAM	£809.99
Star Laserjet LS5 5 page laser, HP emulation, multi font, 300Dpi	£564.99

MONITORS

All our monitors are UK spec. All monitors come complete with a free Amiga lead

PHILIPS CM8833 MK2 Colour
Colour stereo monitor. 600*285 line resolution, green screen facility, one years on site maintenance.
with Lotus Turbo Esprit!
now only £194.99 UK Spec.
Philips Tilt & Swivell stand ..£13.99

◆

PHILIPS TV Tuner for the 8833.£64.99

◆

Commodore 1084ST Colour
features built in tilt & swivel stand this new colour monitor from Commodore is outstanding value
only £199.99

◆

MITAC SVGA .28 dp Colour monitor with *overscan*
only £249.99

◆

NEW! COMMODORE 1940
Dualsync, .39 dpi only £284.99
NEW! COMMODORE 1942
Dualsync, .28 dpi only £379.99
COMMODORE 1960
multisync .28 dpi only £379.99

MICROVITEC MULTISYNCS
A 3 year warranty comes as standard

14"	£409.99
20"	£1099.99

◆

Goldstar TV/Monitor..only £169.99

14" MONITOR COVERS..........£5.99

SUPRA MODEMS

The Supra-Fax Modem V.32 bis (14400 BPS !!!)

Allows you to send and receive fax messages. This new modem from Supra has full 14400 baud capability. Spec includes V.32bis, V.32, V.22bis, V22, V21, MNP2-5, V.42, V42bis, Class 1 & 2 commands, 9600/14400 Group 3 Fax. Includes free comms s/w & modem cable

only £249.99

New! Supra Fax V32Bis14400lc

as above but no LED display and class 1 only

only £174.99

Supra Fax Plus

With the ability to send faxes! Even faster than the standard 2400 from Supra with auto dial & auto receive. Hayes comp. V22b, V42 Bis, MNP 2-5 & auto adjust to maximise transmission speeds. Includes free modem cable & comms s/w!!

only £119.99

GP FAX SOFTWARE only £39.99 if bought with modem

Supra 2400

Get on line using this great value fast modem with auto dial & receive. 2400 baud Hayes comp, V22 BIS. Inc modem cable & comms s/w!!

only £74.99

All Supra Modems come with a 5 year warranty!! Supra modems have not been tested by BT but they have been given between 80 and 90% ratings by the press.

US ROBOTICS

PREFERRED DEALERS

Courier V32bis+FAX	£386.99
Courier HST (16.8)	£403.99
Courier HST/Dual 16.8 Fax	£503.99
Sportster 14400 FAX	£279.99
Sportster 2496+FAX	£152.99
WorldPort 14.4+FAX	£289.99

If you thought V32bis was fast try the HST! All come with a 5 year warranty *and are FULLY BABT Approved!*

PACE MODEMS

MicroLin V22b FAX	£216.99
MicroLin V32b FAX	£449.99

5 year warranty *and FULLY BABT Approved!!*

COMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMP

PRIMA A500 & A600 RAM

3 YEAR WARRANTY!!

	A500P	A600
Unpopulated	only £16.99	£23.99
Populated to 512K	only £19.99	£28.99
Populated to 1 Mb	only £28.99	£33.99

2Mb A600 OR A1200 RAM card	£99.99
4 Mb A600 OR A1200 RAM card	£169.99

AMIGA A500 512K RAM by PRIMA

for the original 1.2/1.3 AMIGA..only £13.99

32 BIT RAM (for A4000 etc)

1 Mb SIMM	£POA
2 Mb SIMM	£POA
4 Mb SIMM	£POA
8 Mb SIMM (only for Microbotics)	£POA

RAM & CUSTOM CHIPS

Co processors for the A4000

Motorola 68882 PLCC(25Mhz)	£69.99
Motorola 68882 PLCC (33Mhz)	£79.99

Co processors for Microbotics

Motorola 68882 PGA (33Mhz)	£79.99
Motorola 68882 PGA (40Mhz)	£89.99
Motorola 68882 PGA (50Mhz)	£157.99

(for Microbotics boards inc crystal chip)

1mb by 8/9 SIMMS	per 1 Mb £POA
4 Mb by 9 SIMMS	per 4 Mb £POA
1 Mb by 4 DRAMS	per 1 Mb £42.99
1 Mb by 4 ZIPS	per 1 Mb £39.99

256 by 4 DRAM (DILs)

4+ (512K)	now only £3.99
8+ (1Mb)	now only £3.94
16+ (2Mb)	now only £3.89
Kickstart 1.3	£17.99
Kickstart 2.04	£24.99
Fatter Agnes 8372A	£25.99
Super Denise	£16.99
6571-0326 Keyboard controller	£13.99
CIA 8520A I/O controller	£7.99

MICROBOTICS RAM

The MBX1200Z CO-PROCESSOR & RAM BOARD for the A1200

Realise the full potential of your A1200 with this trapdoor expansion. inc real time clock

68881 14MHZ	£119.99
68881 25MHZ	£129.99
68882 33MHZ	£139.99
68882 50MHZ	£209.99

The RAM boards can only work with the use of the Co-Pro board

SUPRA RAM

Simply the best! Fits onto the side expansion port Auto configures with no software patching.

8Mb pop to 2 Mb	£159.99
8Mb pop to 4 Mb	£214.99
8Mb pop to 8 Mb	£319.99
8Mb pop to 2 Mb for 2000/1500 range	£149.99

GVP HARD DRIVES

AMIGA A500 HARD DRIVES

from only £247.99

A500 GVP Combo's

A530 Combo 40MHz from only £475.99

68882 Co-Processor Kit for A530	only £214.99
32 bit 60ns 1Mb SIMM for Accelerator	only £64.99
32 bit 60ns 4Mb SIMM for Accelerator	only £179.99

1500/2000 Hard Drives

Impact Series II HC8+ from only £289.99

All GVP products come with a full 2 year warranty

ROCHARD DRIVES

ROCTEC A500 CONTROLLER CARD

Very similar in style to the GVP HD8+ but without a hard drive so you can fit your own. Expands to 8Mb of RAM using SIMMS............£149.99

ROCTEC 42Mb	£219.99
ROCTEC 80Mb	£299.99
ROCTEC 120Mb	£315.99
ROCTEC ROCMATE	£99.99

SPECIAL OFFERS!

DATALUX CLEAR MOUSE

High quality clear 2 button mouse

£19.99

◆

PAGESTREAM 2.2 DTP

only £64.99

◆

XCOPY PRO PLUS HARDWARE....£25.99

◆

TECHNOSOUND TURBO

only £25.99

◆

ROCHARD DRIVES for the A500/A500+ from £219.99

POWER SCANNER V3

With the latest version 3 sofware for bright & sharp grey scale performance. Flexible scanned image display manipulation options, plus Clean up, embolden, resize & flip.

only £114.99 on demo

Colour version only £239.99

EPSON GS6500 COLOUR FLATBED

only £689.99 phone for details & demo

Art Department Pro Scanner S/W..£109.99

compatible with Epson ES300C, ES600C, ES800C, GT6000, GT6500 & GT8000

MICE & TRACKERBALLS

GOLDEN IMAGE MEGA MOUSE

90% rating. Our best selling mouse............£12.99

DATALUX CLEAR MOUSE

High quality clear 2 button mouse............£19.99

Zydec Trackball	£29.99
Golden Image Trackbail	£37.99

DISK DRIVES

Prima 3.5" only £56.99

1 meg high quality external drive at a great low price.

◆

Roclite 3.5" only £62.99

super slim Roclite. Best review for disk drives in Amiga Format. Now with built in virus checker and anti click device!

◆

Cumana 3.5" only £56.99

1 meg external drive. The best name in disc drives now at a great price.

OPAL VISION

24 bit graphics card & video system for the1500 2000/3000/4000. Includes software bundle

only £619.99 with Imagine 2!

GENLOCKS

Commodore A2300 internal Genlock

only £119.99

GVP Genlock...........only £297.99

features professional SVHS output

Rocgen Plus...........only £149.99

Includes dual control for overlay and keyhole effects, extra RGB pass thru. Now A1200 compatible!

Rendale 8802 FMC..only £169.99

ROCGEN ROCKEY

For creating special effects in video production with genlocks......................only £139.99

PRIMA ROM SHARERS

This high quality ROM sharer features a flexible ribbon connection so that it can be positioned anywhere within your A500 Plus or A600. Full 2 year replacement warranty

now only £19.99 or £27.99

for keyboard switchable version

EMULATORS

COMMODORE 386 25SX..£169.99

This is a PC 386-25SX Bridgeboard running at 25 MHz

NEW! COMMODORE

486 SLC SX25 PHONE FOR DETAILS

ONLY £289.99

ROMBO PRODUCTS

New! VIDI 12 Real Time.£134.99

Real time colour digitizing from any video source. full AGA support

New! VIDI 24 Real Time.£223.99

24 bit quality real time colour digitizing from any video source. Full AGA support

New! VIDI 12 AGA...........£74.99

Full support for AGA chipset. Colour images captured in less than a second, mono images in real time with any video source. Multitasking s/w, cut & paste.

VIDI 12 SOUND & VISION AGA

with built in Megamix Master............£98.99

TAKE 2..............................£37.99

Features include load and save from D. Paint animations and IFF files. Supports HAM graphics.

Megamix Master.........£29.99

8 bit, high spec. sampler. Special effects include echo that can be added in real time, fully multitasking & easy to use.

ACCELERATORS

MICROBOTICS

New M1230 for A1200 withup to 128 Mb fast RAM!

M1230 XA 33Mhz, 0Mb	£245.99
M1230 XA 40Mhz, 0Mb	£264.99
M1230 XA 50Mhz, 0Mb	£329.99

See "RAM & CUSTOM CHIPS" section for prices on Co-pro's and 32 bit RAM. Call for prices on upgrades from MBX1200Z to MBX1230XA

GVP

A1230/0Mb RAM for A1200	only £284.99
A1230/1Mb RAM for A1200	only £384.99
1500/2000 G-FORCE 030-25MHz with 4Mb 32 bit RAM	only £479.99
G-Force 030-40MHz with 4Mb 32 bit RAM	only £729.99

NEW! SUPRA ACCELERATOR for the A500/A500+ & A1500/2000

28 Mhz, uses A500 side port so there is no internal fitting

only £129.99!

ACCESSORIES

Real Time A1200 internal clock module	only £14.99
Mouse/joystick manual port switcher	only £13.99
Computer Video Scart Switch	only £19.99
2/3/4 way Parallel port sharers	£POA
Amiga Sound Enhancer Plus by Omega Projects. Hear the Amiga's sound like you've never heard it before!	only £36.99
QUALITY MOUSE MATS	£3.99
20 CAPACITY DISK BOX	£2.99
40 CAP LOCKABLE DISK BOX	£4.99
100 CAP LOCKABLE DISK BOX	£6.99
*90 CAP STACKABLE BANX BOX	£9.99
*150 CAP STACKABLE POSSO BOX	£18.99

*add £3.00 delivery if purchasing just one Posso or Banx box. Free delivery when purchased with other product or when buying 2 or more.

AMIGA A500 DUST COVER	£3.99
AMIGA 600 COVER	£2.99
14" MONITOR DUSTCOVER	£6.99
12" MONITOR DUSTCOVER	£5.99
AMIGA TO SCART CABLES	£9.99
STD 1.8 METRE AMIGA PRINTER LEAD	£4.99
MODEM AND NULL MODEM CABLES	£9.99

AMIGA CONTROL STATIONS

A500 or 1200 VERSION	£36.99
A600 VERSION	£29.99
PRINTER STATION	£28.99

DISKS

All disks are 100% error free guaranteed

New High density 3.5 inch bulk and Fuji branded

Please phone for best prices!

QTY	3.5" DD/DS Bulk	OR FUJI DD/DS BRANDED
10	£4.99	£6.99
30	£14.99	£17.99
50	£21.99	£28.99
100	£39.99	£54.99
200	£73.99	£99.99
500	£169.99	£POA
1000	£339.99	£POA

Branded disks come complete with labels

Disk Labels....500...now only £6.99

Disk Labels..1000....now only £9.99

SOFTWARE

PD IN STOCK

BUSINESS

Gold Disk Office U.K.spec	£45.99
Home Accounts 2	£37.99
Maxi Plan 4	£36.99
Mini Office	£38.99
PERSONAL FINANCE MANAGER +	£29.99
PLATINUM WORKS	only £29.99!!

Excellent integrated business/office pack, with powerful 123 comp spreadsheet, word processor & database

MISCELLANEOUS

A Talk comms Software	£9.99
Distant Suns new version!	£49.99
GB Route Plus	£45.99
GP FAX Software	£44.99
X-CAD 3000	£284.99

MUSIC/SOUND

Audio Engineer	£73.99
Audio Engineer Plus V2	£243.99
Bars & Pipes Professional	£259.99
Clarity 16 sampler	£105.99
Deluxe Music Construction Set	£49.99
Pro Midi Interface by Microdeal	£24.99
Stereo Master	£29.99
SUPER JAM	£94.99
Techno Sound Turbo	£25.99
Techno Sound Turbo 2 NEW!	£34.99

PROGRAMMING

Amos Creator	£34.99
Amos Compiler	£21.99
Amos 3D	£25.99
Amos Professional	£47.99
Amos Professional Compiler	now only £24.99
DEVPAC 3	£50.99
Easy AMOS	£24.99
LATTICE C Language Version	£229.99

UTILITIES

AMIBACK	£44.99
AMIBACK TOOLS	£44.99
AMIBACK PLUS TOOLS BUNDLE NEW!	£74.99

AMIGA RELEASE 2.04 UPGRADE KIT

Complete with: Kickstart 2.04 CHIP, Workbench 2.04, Install, Fonts & Extras disks full manual set...only £77.99

AMIGA Release 2.1 software upgrade	£49.99
Cross Dos V5	£36.99
Directory Opus 4	£49.99
Giga Mem	£49.99
Hypercache Pro	£36.99
QUARTERBACK V5	now only £40.99

Prima A600/1200 Hard Drive setup software. This is the best setup software on the market!..............................£5.99

Latest version of this Fast & Famous hard disk backup utility.

Quarterback Tools	now only £45.99
Quarterback Tools Deluxe	now only £69.99
Xcopy Pro inc. hardware	now only £25.99

VIDEO AND GRAPHICS

37 Compugraphic fonts Vol 1, 2, or 3 by GT	only £9.99
Adorage (creates special video effects)	£61.99
Art Department Pro 3	only £145.99
Art Department Scanner software	only £114.99
ART EXPRESSIONS ....By Soft Logic	£145.99
BRILLIANCE NEW! Pro. paint and Animation	£149.99
CALIGARI 24 NEW! 3D Design and animation	£239.99
Deluxe Paint 3	£12.99
Deluxe Paint 4 AGA	£66.99
EXPERT DRAW	only £49.99
EXPERT 4D JR	only £37.99
Flexidump printer utility	£31.99
Imagine V2	£119.99
Make Path for Vista	£26.99
Morph Plus	£147.99
Personal Paint NEW!	£45.99
Real 3D Classic	£77.99
Real 3D V2	£365.99
Scala 1.3	£72.99
Scenary Animator V4 (3Mb reqired)	£62.99
TRUE PRINT/24	£49.99
VIDEO DIRECTOR	£115.99
VIDEO MASTER	£49.99
Vista Pro 3 (4Mb required) NEW!	£50.99

WORD PROCESSING/DTP

FINAL COPY 2 (UK) RELEASE 2.only £77.99

built in outline fonts, full graphics import (IFF and HAM), UK thesaurus, spelling checker & much more.

KINDWORDS V3	only £24.99
PENPAL 1.4	only £38.99

Best selling feature packed word publisher with database.

PAGESTREAM 2.2 U.K. version only £64.99

Special price. Limited period Only !

PAGESTREAM 2.2 U.K. version plus ART EXPRESSION..............................only £179.99

PAGESTREAM 3 U.K. version

The NEW standard in DTP only £249.99

PAGESETTER 3 NEW!	£42.99
Personal Write NEW!......Postscript compatible	£17.99
Hot Links	£48.99
PRO PAGE V4	£109.99
PRO PAGE V4 & Pro Draw 3 NEW!	£139.99
Protext 4.3 W/P	now only £39.99
Prowrite 3.3 NEW!	£38.99
THE PUBLISHER DTP NEW PRICE!	£24.99
TYPESMITH, FONT EDITOR NEW!	£124.99
WORDWORTH 2 AGA	£76.99

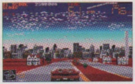
OMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMPUTER CENTRE ΦFIRST COMPUTER

VFM

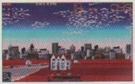
Money's too tight to mention? Well, you can still have mucho fun and games thanks to CU AMIGA's clever but thrifty guide to the games that you can buy for under a tenner.

CHASE HQ2

HIT SQUAD OUT NOW £9.99



Keep the pedal to the metal and tear up those highways in pursuit of your prey.



But don't go too fast, or you'll end up parking in somebody's front garden.

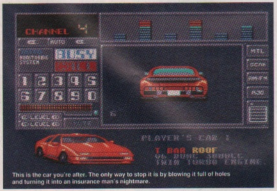
For those of you unfamiliar with this ancient coin-op conversion, it's basically *Outrun* with violence. As a member of the top Special Criminal Investigation team, it's your job to track down killers and other scum polluting the highways of America. For some reason they all drive fast cars, so you're given an equally smart vehicle to make sure you can catch them.

The gameplay, however, has no finesse at all. At the start of the game, you're told who you're after and are sent out after them. After a few minutes driving, you come across the offending vehicle which is conveniently picked out by a large yellow arrow. From here on in, it's just a case of ramming them until they give in or the clock runs down. It's hardly very taxing, now is it?

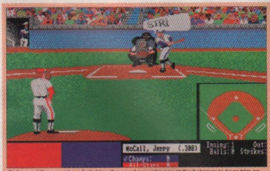
The game suffers from a fatal lack of variation. There are no new cars for you to drive, no exciting new hazards to thwart your attempts at law enforcement. Dull repetitive backdrops make it a chore to continue beyond the first couple of levels. In fact, you'll probably find yourself putting the disk back in the box after only half an hour as it offers nothing to keep you glued to your joystick. If you're after a fast-paced driving game, stick with the Lotus series, they are much better games. This blend of action and simulation just doesn't work at all.

56%

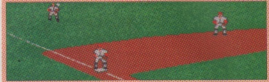
Mark Patterson



This is the car you're after. The only way to stop it is by blowing it full of holes and turning it into an insurance man's nightmare.



Strike one! If you get bored pitching the usual way, aim one at the batsman to keep him on his toes, or on a stretcher, whichever way you look at it.



Slide to base if things are looking hairy. Be careful though, if you run out of steam you'll not only end up with egg on your face, but also face a short walk back to the dug out.

HARDBALL

HIT SQUAD OUT NOW £9.99

Baseball is one of the games which most Brits don't generally see the point of, especially when the majority consider it to be nothing more than Americanised cricket. Still, Accolade went out on a limb with this game and they came up trumps.

Hardball, which is now over six years old, was one of the first baseball games to appear in this country. Because this is essentially the same version that was released in the States it contains loads of terms such as 'RBI' (Runs Batted In) which mean very little to the baseball illiterate.

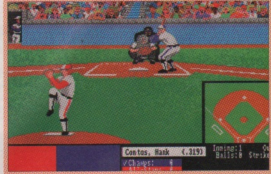
But, if you like baseball and can tell a change-up from a curveball, then *Hardball* could be the game for you . It has large, well-animated graphics which are used primarily for the pitching and the batting and change to a smaller view of the pitch when it's time to run. The excellent graphics combined with the fluid gameplay make the action extremely addictive.

The only real criticism I have is that the matches drag on too long. Nine innings, plus overtime if the scores are level at the end, make each match far longer than necessary.

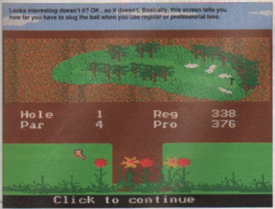
Batting is more fun than pitching. The type of shot you play depends entirely on timing, swing too early and the ball will be spun up and off the bat, too late and you'll hack it out of bounds. Even if you're not a baseball nut and just want to try something different, *Hardball* is a decent purchase at its new asking price.

82%

Mark Patterson



There are loads of different types of pitches to play. The traditional fast ball is still one of the best, as a pitcher can hit curve balls into oblivion.


Looks interesting doesn't it? OK , so it doesn't. Basically, this screen tells you how far you have to slug the ball when you use regular or professional tees.

MEAN 18

HIT SQUAD OUT NOW £9.99

Computer golf games are usually very hit or miss affairs, especially because the people who buy them are usually those who play the game for real. *Mean 18* is designed to test just those sort of people by pitting them against the toughest 18 courses they'll ever encounter.

In some respects the game is extremely challenging. It's not so much because of well-designed courses, but the badly worked control system which destroys the best of handicaps. This invariably leads to copious amounts of frustration as you inadvertently spang shots extremely wide of the mark through no fault of your own.

There are no frills either. This has to be the dullest golf game ever. If they gave out Golden Turkey awards for computer games this would top the sports category. Apart from club selection and a rudimentary system for taking your shot the game offers nothing else at all.

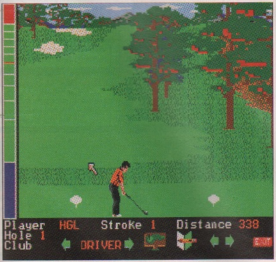
To cap this all off the graphics are very dull indeed. The landscape offers no impression of realism whatsoever. This is partly down to its age, but that's not much of an excuse when you know it was slated by most games reviewers first time around.

Even at a budget price you should steer clear of *Mean 18*, not even hard-core golf nuts will find any sort of playability here.

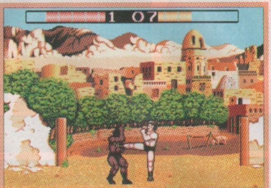
Save your cash and aim for *PGA Tour Golf*, or *Microprose Golf*. They're far more professional and realistic.

Mark Patterson

35%



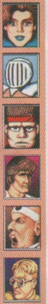
Mean 18 is hardly what you'd call realistic. In fact, it's hardly what you'd call good. There are many better golf games out there, with this one well off the leader board.

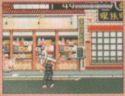


Wow, just look at the detailed backdrops and the excellently-animated fighters. Actually, I'm lying. No matter how hard you look at this game you won't find anything worth praising.

FIST FIGHTER

ZEPPELIN GAMES OUT NOW £7.99





It's the ancient art of Unclean Underpants! Masters of this art don't wash their underwear for months. Then, in battle all they had to do was leap into the air and give their opponent a whiff of smelly knickers.

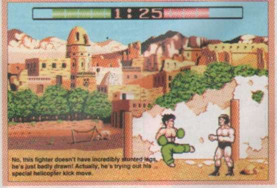
The aim of the game is to take one of eight top martial arts experts and, using his skills, beat the tar out of every challenger you meet in one-to-one contests. As with most beat 'em ups, *Fistfighter* features the usual range of hand and foot combinations plus the ubiquitous special move unique to each contestant. The game's set over three locations, in Egypt, Japan and the USA. I can understand the programmers choosing Japan and the USA as venues for gruesome martial matches, but exactly why they chose Egypt is beyond me.

Anyway, naff choices aside, the rest of the game manages to live down to the standards set by the simply awful box art. If I was to tell you that the art is a poor rip off of a particularly bad action flick, called *Angel Town*, you'll get some idea what the gameplay's like.

Perhaps the best description of *Fistfighter* is, it's the worst beat 'em up I've ever had the misfortune to play. The main sprites are poorly drawn with their limbs resembling something a five-year old could manage in his first art lesson. The collision detection is abysmal and there's very little reaction shown when blows actually do land. Worst of all, is the fact that an uncoordinated idiot could finish the game in minutes. Even I managed to beat all the opponents in my first session. Avoid.

Jon Sloan

20%



No, this fighter doesn't have incredibly stunted legs, he's just badly drawn! Actually, he's trying out his special helicopter kick move.

17
BIT
SOFTWARE
Est.
1988

WE STOCK THE LOT!
FISH TO 850!
AMOS DISKS!
TBAG DISKS!
NZ DISKS!
AMICUS!
AMIGAN!
ALL CLR TITLES

FOR THE BEST IN QUALITY AMIGA PUBLIC DOMAIN, NO-ONE ELSE COMES CLOSE

DEALERS WANTED
IF YOU RUN A PD OUTLET OVESEAS AND WOULD LIKE TO DISTRIBUTE 17 BIT DISKS, CALL US OR FAX NOW FOR DETAILS!!

FAST SAME DAY SERVICE, HELPFUL SALES STAFF, ESTABLISHED FOR OVER 5 YEARS
40,000 MEMBERS THROUGHOUT THE WORLD , WELL OVER 4000 TITLES IN STOCK

ORDERING

BY PHONE
(0924) 366982
Access/Visa/
Switch / AMEX

BY FAX
(0924) 200943
Leave Order &
Credit Card details

BY POST
Our Address is:
17 BIT SOFTWARE
1ST FLOOR OFFICES
2/8 MARKET STREET
WAKEFIELD
WEST YORKSHIRE
WF1 1DH
PLEASE MAKE
CHEQUES PAYABLE TO
17 Bit Software

DISK PRICES

17 BIT FISH ETC	£1.25
SCHEME 17	£2.00
AM/FM MAG	£2.50
AM/FM SAMPLES	£2.50
CLR SINGLE	£3.50
CLR 2 DISK SET	£4.50
CLR 3 DISK SET	£4.99
CAT DISKS	50p

POSTAGE RATES

UK PD ORDERS	50p
OVERSEAS ORDERS	20%

(MIN OVERSEAS P&P1.00)
PLEASE ADD 75P P&P FOR COMMERCIAL GAMES, DISK BOXES ETC.

We also stock most new Amiga games at over 20% Discount!! Call for details!

NEW PD ADDITIONS

+2710 Spectrum Emulator v1.7
+2709 Magic Factory Slideshow
+2708 Super Pong
+2707 Numtris
+2706 viewtek v1.5
+2705 RD Prep
+2704 Hotblox
+2703 Reversi 2
+2702 Pools Wizard JM
+2710 Entity
+2699 PP Mini Cruncher
+2698 HD Click V2.53
+2697 Space Invasion
+2696 Friends of Paula Music
+2695 Akira Pics +2
+2694 "No Sampler" Utils
+2693 Nostromo Cheats V1.1
+2692 Road To Hell Game
+2691 Schmegeggi Comic Strip
+2690 Cover Up(Anim)
+2689 DTV Units
+2688 Samples Unlimeted +1
+2687 Doo Doo The Return
+2686 Alternative Reality Anim
+2685 Music Base V1.0
+2684 Circus Anim
+2683 Sanity Inteference
+2682 Amos Pro Update 1.12
+2681 Popeye C64 Conversion
+2680 (ABC) Grapevine
+2679 Lemmings 2 HD Installer
+2678 Copiers Unlimeted
+2677 (AB)On The Green
+2676 Communicate Sign Language
+2675 (AB)Endless Melodies
+2674 (ABC)James Bond 30th Aniv.
+2673 Quantum
+2672 Retina Euro 1 Demo
+2671 Supertron
+2670 Catalogue 3
+2669 Strikeball Game
+2668 (AB) Lex Goudsmith Tribute II
+2667 Total Irrelevance 1
+2666 Rhythmic Orgy
+2665 Pacmans Return
+2664 Phantomware Slides
+2663 X-Beat Sequencer
+2662 Lemmingoids 2
+2661 Major League
+2660 Fun With Cubby Demo
+2659 Red Dwarf Trivia Quiz
+2658 (AB)Starbase 13 Game Mega
+2657 Capri Slideshow II
+2656 Total Irrelevance Iss +2
+2655 Music Madness
+2653 (AB) Fit Chicks
+2652 Windybottom Demo
+2651 (AB)Zynex 3 Anim
+2650 Great Escape Of Billy Burgalr
+2649 CG Fonts +7
+2648 CG Fonts +6
+2647 CG Fonts +5
+2646 Bondmine
+2645 (AB)State Of The Art Utils

BITSES 'AND PIECES!

GRAPEVINE 16
The Scene Mag that needs NO introduction. £4.00 Inc P&P

BACK BY UNCEASING DEMAND!
Tobias J Richter presents Space Wars, The Movie on hi-grade VHS tape in HI-FI! This will be the **VERY LAST** production run so **BUY IT NOW!**
£11.99 +75p P&P

'SOUNDS DIGITAL'
Alister Brimble presents his first ever Music CD. Includes the famous 'Rave Track' from Team 17 Game Project X as well as other previously unheard synth tracks, Proffessionally recorded & Studio quality. Sounds Digital is for anyone with a taste in Synth Music.
£10.99 +75p P&P

FINAL FRONTIER 5
Warp factor 4 Mr Sulu, and pass me my copy of T.F.F. while you're at it . Aye Cap'n but don't forget to pay £6.95 to Checkout ... er Checkov!

COMPUGRAPHIC PACK
5 Disks including dozens of Compugraphic fonts for use in Final Copy, Pagesetter 3 or Propage v3+
£6.00 Inc. P&P

ASSASSINS GAMES DISKS!
Easily the most popular games compilations around today. We now stock the entire range up to disk 95! thats around 375 games! They are available as individual disks at £1.25 each or you can save by ordering in packs of the following :-

ANY 20 ASI DISKS FOR	£20.00
ANY 40 ASI DISKS FOR	£38.00
ANY 60 ASI DISKS FOR	£56.00
ANY 80 ASI DISKS FOR	£74.00
OR TAKE THE LOT FOR	£90.00

NEWSFLASH
The only Mag for serious Amiga Users. Issue 30 currently available. £4.95 for 2 disk ish, or £6.95 for all 3

A570 & CD USERS..LOOK!

THE 17 BIT COLLECTION
We are proud to present our own collection of over 1700 library disks compiled onto a double CD collection for all A570 & CDTV users. The disks contain the vast bulk of the 17 Bit library up to disk 2301 which include classics such as Odyssey & Hardwired Etc. Just some of the awards so far include :-

98% - The One
89% - Amiga Format
95% CDTV User Group
Buy yours now for £39.99 +£1 P&P

DEMO CD
Over 650 Megabytes of demos, cliparts, music, slideshows, games and utilities, Not to mention over 1000 modules! £19.99 + 75p P&P

CDPD VOLUME 1
This packed CD contains the entire Fred Fish range of disks from 1 to 650! Only £19.99 +75p P&P

CDPD VOLUME 2
The continuation of the Fred Fish range plus the entire SCOPE & JAM ranges of disks too! Unbeatable value at £19.99 +75p P&P

NEW IN!!CDPD VOLUME 3
Fish from F761 to F890, Ready to run-from the CD! Also includes dozens of high quality 24 bit scans plus Ham and AGA H8 versions & much more! for only £19.99 +75p P+P!

Subscribe to the 17 Bit Update! Every 8 weeks we will send a disk based update to you containing lists of all the latest in PD + other useful items! subscription is £9.99 per year inclusive. Overseas subs are £19.99 Inc.

CLE-EDUCATION CLU-UTILITIES CLG-GAMES

CLE 01 (2)	Dinosaurs
CLE 02 (2)	Geology
CLE 03 (3).	Solar System
CLE 04.	Colour Pad
CLE 05	A-Chord
CLE 06.	T.A.M.1
CLE 07(2)	Fishing
CLE 10(3)	Basically Amiga
CLE11	Lets Learn
CLE12	Alphabet Teach
CLE13	Home Brew
CLE14(3)	Ecology
CLE15	Fast Fret
CLE16(3)	History Vol+1
CLE17	Thingamig
CLE18	Work and Play
CLE19	Play It Safe
CLE20	Big Top Fun
CLE21	Jigmania
CLE22	Chess Teacher
CLE23	Mind Your Language
CLE24(3)	Speed Reading
CLE25	Chord Coach
CLE26	SNAP
CLE27	C.A.T.T
CLE28	Fun With Cubby
CLE29	Prehistoric Fun Pack
CLE30	Peg A Picture
CLE31(2)	Understanding Amos
CLE32(2)	Spitfire
CLE33(2)	Messerschmitt
CLE34(2)	My First Pony
CLE35(3)	Solar Systems Vol+2
CLE36(2)	The Time Machine
CLE37	Discovery Of America
CLE38(2)	Home Inventions
CLE39(2)	My Little
CLE40	Borealis Junior
CLE4!(2)	Basically Medicine
CLE42	Photography Tutorial
CLE43	Language Quiz
CLE44	Photo Tutor +2
CLE45	Fun With Chubby
CLE46	Human Anatomy
CLU01	Video Titles
CLU02	Fish Index
CLU03	Typing Tutor
CLU4	Alphagraph
CLU05	Menu Maker
CLU07	Philo
CLU08(2)	Word Finder
CLU09(2)	Play N Rave
CLU10	Power Accounts
CLU11	CALC
CLU12	Virtual Windows
CLU13	Datos
CLU14	Stock Controller
CLU15	Epoch V1
CLU16	X Stich
CLU17	LC10/LC20 Fonts
CLU18	LC200 Fonts
CLU19	24 Pin Fonts
CLU20	BJ10 Fonts
CLU21	Invoice Master
CLU22	Hard Drive Menu
CLU23	F15 Animbrushes
CLU24	Red Lotus Anim Brushes
CLU25(2)	Star Fighter Brushes
CLU26(2)	Star Voyager Brushes
CLU27	Image Base
CLU28	Creative Adventure Kit
CLU29	G.F.X
CLU30	Draw Selector V2.0
CLU31	Flow Charter

CLR WAREZ

When only the best will do Missus!

CLG01	Adventures Of Norris
CLG02	DarkThings
CLG03	Phase 2
CLG04	X System
CLG05(2)	Truckin On 2
CLG06	Obliteration
CLG08	Dragon Tiles
CLG09	Motor Duel
CLG10	Future Shock
CLG11	All Guns Blazing
CLG12	Bulldozer Bob
CLG13	Paradox
CLG14	Sonic Smartiehead
CLG15	Splodge
CLG17	Imbrium
CLG18	SKAN29
CLG19(3)	Stellar Escape
CLG20	Jungle Bungle
CLG21	Flower Power
CLG22	Stocking Filler
CLG23	Marvin The Martian
CLG24	Easy Money
CLG25	White Rabbits
CLG26	Monster Islan
CLG27	Shymer
CLG28	Time Rift
CLG29	Billy Ball
CLG30	Captain K
CLG31	Dirty Rackets
CLG32	7 Blocks
CLG33	Bat 'O"Roons
CLG34	Cybernet
CLG35	OG!

17
BIT
SOFTWARE
Est.
1988

All 17 Bit Disks Can Be Ordered From Any Of The Following:-

AUTHORISED MAIN DEALERS

Computer Man
Perth,W,Australia
Softier Software
Bandhagen, Sweden
Silicone DP
Montpelier,France
NorthWest PD
Washington,U.S.A
System Compbac
Tokyo,Japan
Hard Joy PD
Kobenhavn V,Denmark
Great Value PD
Waihi, New Zealand
Computer Studio
Alberta, Canada

FOR EUROPEAN/NON EUROPEAN READERS, WHY NOT SAVE POSTAGE COSTS AND ORDER OUR DISKS FROM AN OFFICIAL OVERSEAS DISTRIBUTOR!!SEE BELOW FOR MORE DETAILS

SWEDISH PD LIBRARY

All prices are in SEK

SOFTLER SOFTWARE

From SEK 13:-

Box 242 S-124 02 Bandhagen tel. int. +46-(0)8-749 08 06

Beställ 17 Bit diskar från oss!

Den enda officiellt godkända leverantören av 17 Bit diskar i Skandinavien
Förutom alla 17 Bit diskar, över 2600, har vi ca 3500 andra diskar!!!

1 till 3 diskar........23kr/st	21 och fler......17kr/st	Moms och porto ingår.
3 till 10 diskar.......20kr/st	Fred Fish.......14kr/st	Ej kommersiella titlar.
11 till 20 diskar......18kr/st	Minst 11 Fish 13kr/st	Ring 08-749 08 06 för info

Endast för AGA

- DD.598 Renderade HAM8 bilder.
- DD.759 HAM8 svenska sedlar
- DD.760 Fish (från A1200 reklam) mfl.
- DD.791 Cynostic HAM8 slideshow
- DD.831 HOI 'Mindwarp' AGA demo
- DD.832 Trojan 'Techno Tracks' demo
- DD.833 Dual Crew multitask. demo
- SR.530 Tetris AGA & GIF datayp
- SR.612 AGA Utilities (PCX datatyp)
- SR.622 Ultimate AGA Utilities

- **SR.613 PC Emulator** nu med VGA!
- **SR.614 ZX Spectrum Emulator 1.7**
- **SR.615 XFH Stacker** - fördubblar HD
- **SR.616 Hyper Cache** - försnabbar HD
- **SR.621 OptiMOD** - förminskar moduler
- **SR.624 Eagle Player** - superb!!!
- **SR.625 Disksalv 2** - diskräddning
- **SR.627 Delitracker** - moduluppspelare
- **SR.628 OctaMED 2.0** - 8 ljudkanaler!
- **SR.629 OctaMED moduler**
- **Techno moduler** - fem diskar / 85:- kr.

Assassins Games
Nu diskar 1-80!

Garanterat det bästa urvalet av PD spel som finns! Stora mängdrabatter!
Pris från 11:-/ disk!
Kontakta oss för detaljer...

Vi har över 6000 PD diskar!
Diskkatalog **30:-**
på 4 diskar, inkl. 17Bits PD

Betala på PostGiro nr
426 99 36-3

Moms och frakt ingår. Inget tillkommer vid PG inbetalning. Vid telefonbeställning tillkommer 22kr i postförskottsavgift

NORGE, DANMARK & FINLAND:
Var god betala 15% extra per order, min. SEK 30 :-, tack. Betalning endast i SEK.

CDPD
för CDTV/A570

- CDPD 1 Fred Fish 1-660
- CDPD 2 flera Fish, Scope mm
- CDPD 3 Fish 761-880 mm.
- Demo Collection
- Demo Collection 2

325:-/st

- 17 Bit Collection
  Över 1 GB av spel, demos mm.

565:-/dubbel CD

Kommer inom kort - Pandora's CD Giga PD och Aminet CD- ring för info!

AMIGA のプロショップだ!

A600DX SET V2.004	A500 V1.3 1MB RAM	A1200 V3.0 AGA	A1200 AGA 128MB
59,000	54,000	74,800	144,000
A2000V2.05+ECS	A4000-030 5HD 120MB	A4000 68040 6MB	A3000-030120/4MB
108,000	269,000	378,000	258,000

■グラフィックス

SCENERY ANIMATOR 4	9,800
BRILLIANCE	27,900
DELUXE PAINT AGA	19,800
IMAGINE 2	49,600
IMAGE MASTER	27,900
RETINA 2MB	77,000
DC.TV	49,800
CALIGARI 24	45,900
ALADDIN 4D	45,800
REAR 3D V2.0	95,500
REAL 3D CLASSIC	18,800
OPAL VISION V2.0	129,000
PIXEL 3D PRO	29,800

■エミュレーター

AMAX II PLUS	57.900
ROM FOR AMAX II PLUS	34.900
A2386 BRIDGE BOARD	42.600
EMPLANT DELUXE	78.000
SYBILL	14.000

■ビデオ

PERSONAL ANIMATION RECORDER	298.00
IIMPACT VISION 24	229.00
VIDEO TOASTER AGA	19,800
PERSONAL TBC IV	149,000
MORPH PLUS	29,800
VIIDI -AMIGA 12 AGA	25,900
ROCKEY CROMAKEY	62,400
THE PERSONAL SFC	72,800
AVIDEO 24	139,000
DELUXE VIDEO I	18,900
ART DEPT PRO AGA	29,800
FLICKER FREE VIDEO 2	39,800
CHROMAKEY PLUS	58,000

■音楽

AMOS PROFFESSIONAL	14,800
SAS/C LATICE C V6.0	39,800
DEV PAC 3	16,900

(PRICES QUOTED IN JAPANESE YEN)

■ハードディスク

GVP /MB/MB SCSI CONTROLLER A500	56,000
GVP/MB/MB SCSI CONT A400 A2000	27,800
212MB 2.5' HARD DISK UNIT A1200	89,000
128MB 2.5' HARD DISK UNIT A1200	65,000
84MB 2.5' HARD DISK UNIT A1200	49,800
60MB 2.5' HARD DISK UNIT A1200	41,400
A4051 SCSI-2 HD CONTROLLER A400	59,800

■アクセラレーター

XL30 25MHZ A500/A2000	59,000
VXL32 2MB RAM FOR VXL30	43,000
DERINGER 25MHZ +4 MB	69,400
MERCURY 28MHZ A3000	129,000
DERINGER 50MHZ +4MB +MATH-CO A500	93,800
BLIZZARD TURBO 15 MHZ A500/A2000	39,800
A1230 TURBO 40MHZ/4MBA1200	95,400
M1230XA 030 33MHZ A1200	72,800
M1230XAS 030 50MHZ A1200	89,00
G-FORCE 040 33MHZ A2000	229,000
G-FORCE 40MHZ +4MB A2000	115,000
G-FORCE 50MHZ +4MB A2000	153,000
58881 MATH CO BOARD A1200	26,900
58882 MATH CO BOARD A1200	45,000
A530 TURBO HD 120MB/1MB 40MHZ	154,000

■音楽

V2.1UPGRADE KIT W/ROM	19,800
V2.1 UPGRADE KIT W/O ROM	12,000
MULTISTART ROM SWITCHER	12,900
EXTERNAL FLOPPY DRIVEA500/ A2000	20,000
INTERNAL 2HD FLOPPY DRIVE A200	20,000
INTERNAL 2HD FLOPPY DRIVE A3000	20,000
BACKUP BUDDY FLOPPY DRIVE	25,900
TOSHIBA 1.2 GIG HARD DRIVE	230,000
ASIM CDROM F5	14,900
SIMM RAM 4MB 60NS A400	30,000
SIMM RAM 4MB/MBX COPRO BOARD	25,000
SIMM RAM 5MB/MBX COPRO BOARD	53,800
DIGIVIEW MEDIASTATION	29,400
CLARITY 16	29,400
SIMM 32 4MB RAM 68030	28,900
DSS8 PLUS	18,900
MEGA MIX MASTER	9,800
PCM CIA 2MB A600/A1200	32,900
SUPER GEN GENLOCK	99,000
BACKUP CLOCK A1200	8,900
V.LAB 24 BIT	78,200
GLOCK GENLOCK	68,900
A12-FPOO SCSI A1200	46,800
1942 QUADSYNC MONITOR	79,800
KITCHEN SYNC	227,000
EUREKA SCANNER 400DPI	27,600

店頭・通販
輸入直販
木曜定休

a beautiful amiga life for you

システムコンパック

〒110 東京都台東区台東4-22-10
中里ビル3階
TEL: 03-3837-8689
FAX: 03-3837-8218

AMIGA BONANZA

COMMODORE SERVICE RETURNS ALL CARRY 90 DAY WARRANTY R.T.B.

A600 + HD 20MEG	£199.99
A1200 + HD 20MEG	£349.99
A590 EXT HD 20MEG	£89.99
A570 EXT CD ROM	£ CALL
A1011 EXT 31/2" DRIVE	£39.99
A501 1/2 MEG UPGRADE	£19.99
A601 1/2 MEG UPGRADE	£19.99

MONITOR

COMMODORE 1084s

COLOUR STEREO MONITOR

ONLY **£99.99**

ABOVE IS ONLY A SMALL SELECTION OF ITEMS AVAILABLE WE ALSO HAVE CDTV'S. HD UPGRADES FOR A2000. A3070 TAPE UNITS. PLUS MANY OTHER ITEMS, PLEASE CALL TO LET US KNOW WHAT YOU ARE LOOKING FOR **CALL NOW**

"TRADE ALSO WELCOME"

A1200 Hard Drive
SPECIAL OFFER

2.5" Hard Drive is fully formatted, complete with cable

20 MEG	£59.99
30 MEG	£79.99
40 MEG	£99.99
60 MEG	£159.99
80 MEG	£189.99
120 MEG	£229.99

WE WILL TAKE IN PART EXCHANGE ANY IDE DRIVE I.E. 21/2" OR 31/2". ALSO A500's, A500+, A590. ALL PART EX MUST BE IN GOOD WORKING ORDER AND WITH ALL ORIGINAL SOFTWARE AND MANUALS

31/2" DISKS

Type		Qty 25	50	100
BenchMark	DS/DD	£18.60	£32.20	£47.35
Unbranded	DS/DD	£13.40	£22.20	£41.35
BenchMark	DS/HD	£34.80	£63.35	£71.70
Unbranded	DS/HD	£26.20	£38.35	£63.70

SPECIAL EX-SOFTWARE AND COVERMOUNTS OFFER

ONLY **28p** EACH MIN 100

All 3.5 inch diskettes include labels

DISK STORAGE BOXES

* 3.5" 10 capacity (qty 5)	£4.50
* 3.5" 50 cap. lockable	£3.70
* 3.5" 100 cap. lockable	£4.70
* 3.5" 200 cap. stackable	£11.99
* 3.5" 250 cap.stackable	£18.00

* Prices only if brought with diskettes *

ALL PRICES INCLUDE VAT & DELIVERY (UK ORDERS ONLY)

24 HOUR ORDERLINE 0597 851784

MCS

MANOR COURT SUPPLIES LTD
Dept CU10, Glen Celyn House Penybont,
Llandrindod Wells, Powys, LD1 5SY
Telephone: 0597 851792
Fax No: 0597 851416

VISA

EDUCATION AND GOVERNMENT ORDERS WELCOME

Northern COMPUTER Markets

50p OFF

ADULT ADMISSION WITH THIS VOUCHER

1993 DATES

25th	Sept	Walsall (Ball Park Leisure Centre)
26th	Sept	Burnley (St Peters School)
9th	Oct	Bradford (Ball Park Leisure Centre)
10th	Oct	Stockport (Ball Park Leisure Centre)
17th	Oct	Stock-on-Trent (Trentham Gardens)
30th	Oct	Sheffield (Ball Park Leisure Centre)
31st	Oct	Derby (Moorways Sports Centre)

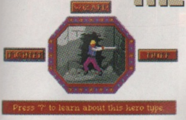
ALL SHOWS 10AM TO 3PM
Normal Adult Admission £1.50
WITH THIS VOUCHER £1.00

COME & VISIT THE BEST SHOWS WITH THE LOWEST PRICES

STALL SALES
061 681 0569

For the final time, Tony Gill ventures forth into the notorious Trolls Head to find out the answers to his lastest batch of adventuring queries.

THE TROLLS HEAD



You can play *Quest for Glory* as a Fighter, Wizard or a Thief, but whichever you choose you'll likely be contacting the Shrine of Knowledge for a clue before the day is out.

RULES OF THE INN

This year the 'Witches Quiz', (sponsored by the Office of the Witchfinder General) will be held next Tuesday on the village green – next to the duck pond. There will be a BAR-B-QUE for all contestants after the show.

By Order of The Innkeeper.

SHRINE OF KNOWLEDGE

A fabled wonder, first spoken of by wise men who returned from foreign lands, the Shrine of Knowledge is here to serve you. Bow low, insert your gold coin, and quickly ask all that you will.

Huddled beneath dark forces lies the town of Waterdeep. Soon you'll be dragged into a mighty quest – *Eye of the Beholder II* – which will pit your wits against the evil from Temple Darkmoon. Have you got the wit, the strength of character and the strong right arm to overcome them?

QUEST FOR GLORY — TRIAL BY FIRE

It warms the cockles of my heart when I receive letters which say, "I've written to lots of magazines for help with my problem, but none of them could help, so now I'm writing to you." Gives you the warm glow of feeling wanted doesn't it? Steve Jarvis from Rugby is this month's most hated reader, but we'll forgive him this once and solve his problem. The evil Ad Avis has a nasty habit of setting fire to things when he gets his knickers in a twist and in so doing he is toasting the foolish Steve Jarvis. Can we save him and should we bother?

The Shrine replies: You have now arrived at the final moments of the game where you are menaced by a magic statue. Don't bother pushing your luck with this stony-faced opponent, just type Escape and you will move out of his reach. Cast a Force Bolt on one of the candles and this will cause Ad Avis to turn and attack you. Now you must run like fun around the pentacle towards the cauldron which will turn to flames. Take a deep breath, think of England, and run through the flames until you reach Ad.

He will be so surprised by your manoeuvre that he will fall through the window with surprise, all the while screaming, "Curses, you've had help from Tony Gill!"

EYE OF THE BEHOLDER

A goodly number of you continue to fill the postbag with the problems that you're encountering beneath the floorboards of Temple Darkmoon. Here are a few hints that will solve many of your problems. You can find an extra copper key on the first level of the Temple by searching one of the beds (just click on it). The mark of Dark Moon is a brand on your hand which you'll get on Level 3 of the Silver Tower. To break through the Azure Bond on Level one of Temple, you'll need to smash it with the crystal hammer. The cursed sword, called Hunger, makes the character who uses it consume rations twice as fast as the others. A red gem found lying on the floor on Level 2 of the Silver Tower is used later to satisfy the magic mouth that seeks 'something red'. Other mouths on this level want: rotten food, five rocks, a potion, a scroll, the mantis idol, and the Hunger sword.

GOBLIINS

Adventures which emanate from across the English Channel have that indefinable quality which marks them as very different from the home-grown variety. French games are like garlic; you either love them or hate them. I think *Goblins II* is one game which everyone will like although its puzzles can sometimes make your brain creak. Stephen Wren from Sawbridge- worth has fallen foul on the section containing the tree-houses and the basketball player and claims he is totally stumped. (Trees - stumped - geddit?) Oh yes, very droll.

The Shrine replies: Before we go any further I had better tell you that we are going to use the word 'Winkle'. Now I want all of you to do your sniggering now, and get it out of your system before I start. Are you ready? Get Winkle to throw a stone at the ball. As soon as the ball hits the ground a little boy will appear and steal it. (Don't you just love little boys?) To recover the ball both your characters must co-ordinate their next move. Prepare Winkle to follow the boy into the house that he disappeared into, while Fingle positions

»

A poor innocent child is spirited off into the night by an evil demon. Who can save the poor babe? Well, Fingle and Winkle might, but with silly names like that I wouldn't be too sure.

» himself by the top right door. Move Winkle and Fingle simultaneously, and Fingle will capture the little beggar. Fingle can now give the ball to the basketball player who will throw it through the hoop. Use Winkle to head the ball towards the Mayor's window. The Mayor will be so pleased that you have thrown a ball through his window that he'll pop out to have a merry chat with you. Move up to Tom's house and he'll tell you that he'll fix you up with an hourglass if you bring him a melody. Time to move next door and get musical.

KGB

Men used to join the French Foreign Legion to forget, (I can't remember why) but Johan Macs from Belgium has gone completely over the top and joined the Russian KGB. Having smooth-talked his way into this deadly organisation, he has foolishly got himself into a pile of trouble that now requires the help of the Shrine to get out again. Currently our man in Leningrad is booked into the Hotel Go Stinitsa with a corpse which he can't move (reminds me of my honeymoon!). His instructions are to dump the corpse in the nearby canal without attracting the attention of the local fuzz. He knows that there is a wheelchair in reception, which could help his plan, but he can't figure out how to get it.

The Shrine replies: You should never have left Belgium should you? I know it can be a little boring at times. After all, once you've eaten a couple pounds of chocolate and bought a postcard of that disgusting little boy fouling the drinking fountain in Brussels there's not a lot else to do, but joining the KGB is a bit too extreme. Go into the bathroom and put the hat and coat on the corpse and pour some alcohol on him. Leave the room and find the tramp at the rear of the hotel who you can give the bottle of hooch to. Return to your room and move the body into Room 8. From here you can heave the body out of the window. It may be a little heavy, after all he is a 'dead weight', (Hee hee. That's what's known as black humour I believe) but he won't complain if he lands on his head. Go to reception and complain that someone is making a lot of noise up stairs.

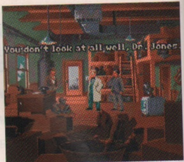
Once the receptionist leaves to investigate your complaint you can grab the wheelchair and find the body. Put the body in the wheelchair and head for the canal. The police will appear, but don't worry as the body's rumpled clothing and the smell of booze will make them think that it is a computer journalist being taken back to the office after lunch.

INDIANA JONES AND THE FATE OF ATLANTIS

Most players come a cropper when they try and figure out how to move the spiral design in the temple at Tikal. Just to be awkward, Rohin Francis from London says that he's solved that problem, but doesn't know what to do next.

The Shrine replies: Look genius, the hard bit was figuring out that you use the girl to keep the guide busy while you go outside and take the oil lamp from the stall. Use the kerosene to loosen and remove the spiral design step, which the clever ones amongst you managed to overcome.

Your final move is to attach the ornamental design to the statue on the wall at the left-hand side of the screen. The scroll design makes a nice elephant trunk for the head. Use the trunk like a lever, and hey presto! we've solved the puzzle.



I'm stumped. Just how are we going to move that blasted spiral design in the temple at Tikal?

MADAME SOPHIA
TONIGHT
NEWS

WEEN

Having previously mentioned that some French adventures can be great fun, we now turn our attention to another called *Ween*. A shy reader, (or a forgetful one) who didn't give his/her name, has written from Inchicore in Ireland to beg for assistance with this weird game. In this quest is a magical bat who will turn up to solve certain problems providing you can supply it with a regular diet of fruit.

Our reader's query is just as enigmatic as his identity, for all the letter says is, "I've gotten to a point where there are three scrolls which causes your opponent to change identity".

The Shrine replies: assume you are facing the dragon at this point, if not, you can sink back into your anonymity and turn the page! Collect the cherries for you will need them for old fruit-face, then click on the scrolls until the dragon turns into a wasp. Use the wasp trap which you found in the temple to capture it. Although you will have been turned into a worm at this point, (no comment) you can call up your flying friend and he will help you regain your natural form. CU

MONKEY ISLAND

Gareth Hughes of Bristol will not be appearing on BBC's Master Chef this year. This announcement will not come as a surprise to anyone who has been unfortunate enough to have had dinner prepared by this gormless gourmet as it is obvious that he hasn't yet grasped the concept of recipes.

In *Monkey Island* our boy is required to put the ingredients listed on the piece of paper into a pot. Using his own unique logic, Gareth is placing the piece of paper in the pot instead of the ingredients. And now he is wondering why nothing is happening.

The Shrine replies: Placing a recipe for a birthday cake in the oven for an hour at 220 degrees will result in a piece of brown crinkly paper – not an iced cake!

The point of the exercise is to find alternatives for the ingredients listed on the paper and put them in the pot.

Normally I would now give you a nudge in the right direction to help you succeed, but in your case I think we had better spell things out. When you arrive on board, climb the rope ladder and get the flag. Go down the hatches until you reach the hold. Pick up the rope, open the chest and take the wine. Pick up the kegs to get some gunpowder, then head for the galley where no doubt you'll feel quite at home!

Pick up the pot and open the cupboard to get the cereal. Open the cereal and find the prize inside – a useful key.

Make your way to the cabin and find the ink. Use the key to open the cupboard, and then open the chest to discover some cinnamon sticks and that magical recipe.

Return to the kitchen and use the ingredients, (not the blooming recipe) on the cooking pot (i.e. Cinnamon Sticks, Breath Mints, Jolly Roger, Ink, Wine, Rubber Chicken, Gunpowder and Cereal).

You'll find the result quite staggering. Incidentally, for all of you who can't release the prisoner (even though you've figured out that a mug of grog will melt the lock), take some extra empty mugs to transfer the rum between during the journey.

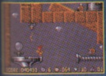
NEXT MONTH

And now I have some good news and some bad news. The bad news is that owing to extensive redecoration requirements, the mystic Shrine of Knowledge will be closed at the end of this month. Boo! Hiss!

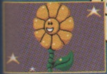
The good news is that a new, Adventure Helpline service will begin next month which we guarantee will inform, amuse and thrill you. Watch this space.

If you have a problem which can't wait, write to:-

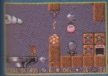
Adventure Helpline, CU AMIGA, Priory Court, 30-32
Farringdon Lane, London EC1R 3AU



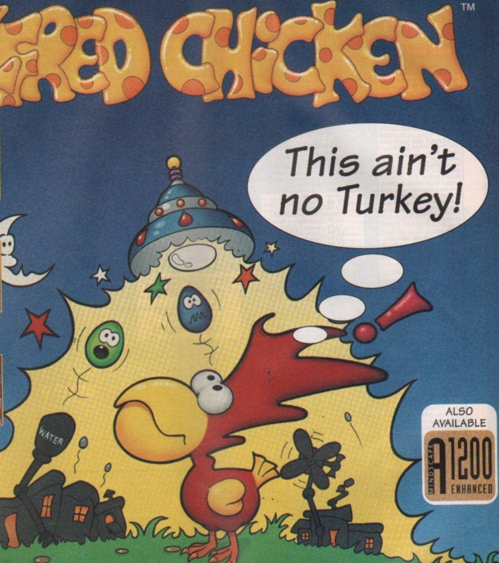
Free that balloon! Watch that snail!



Mr Pekles - Master of flower technology



There's a 'Fry-Up' waiting in Wood World!



Available for:	Amiga (A1200 Compatible)	September '93	£25.99
	Amiga (A1200 Enhanced Version)	October '93	£25.99
	Amiga CD32	October '93	£25.99
	Gameboy	OUT NOW!	£25.99
	NES	November '93	£24.99
	SNES	December '93	£49.99

Oh no! The evil Meka-Chickens have eggnapped Billy Egg and his brothers for their terrible cloning experiment! And they've taken Floella too!!

This is no yolk. As the worlds only chicken with a bionic beak, Alfred is whisked off to a multitude of bizarre lands to pluck his friends from the clutches of their foul captors.

Scramble through 11 transdimensional levels facing the likes of Byron Snail, Mag-Mine, Grim Blocker and the Terrasawus. Beat the Meka-Chickens, snatch back the eggs, and lay their plans for world domination to rest!

FOR FURTHER INFORMATION ON ALFRED CHICKEN PLEASE RETURN THIS COUPON TO: FREEPOST PRODUCT INFORMATION, PRIORITY HOUSE, CHARLES AVENUE, MALTINGS PARK, BURGESS HILL, WEST SUSSEX RH15 9BR.

NAME ....
ADDRESS ....
....
.... POSTCODE ....
TELEPHONE NO. ....
MACHINE OWNED ....

From time to time your name and address may be provided to carefully screened companies, who may wish to send you literature. If you would prefer not to participate please tick this box. ☐

CUA 10

Twilight

MINDSCAPE

MINDSCAPE INTERNATIONAL LTD., PRIORITY HOUSE,
CHARLES AVENUE, MALTINGS PARK, BURGESS HILL,
WEST SUSSEX RH15 9PQ.

Copyright (C) 1993 Twilight. All rights reserved. Alfred Chicken is a trademark of Twilight.

Premier Mail Order

Please send cheque/PO's (made out to Premier Mail Order), or advise Visa/Mastercard number and expiry date to: :

Dept CU11, 10 Tinkler Side, Basildon, Essex SS14 1LE Tel: 0268 271172 ***Fax: 0268 271173***

Telephone Orders: Mon-Fri 9am-7pm and Sat & Sun 10am-4pm **We Are Open 364 Days a Year**

P&P and VAT is included for all UK orders. Please add £2 P&P for Europe and £3.50 for Rest of The World

Next day delivery service available £4 per item UK only.

E &OE

1869	20.99
3D Construction Kit 2	32.99
688 Sub Attack	10.99
A320 Airbus (USA)	**22.99**
A320 Approach Trainer*	22.99
A320 Airbus(EUROPA)	22.99
Abandoned Places 2	22.99
Air Bucks 1.2	19.99
Air Bucks 1.2 (A1200)	22.99
Alien 3	19.99
Alien Breed 2*	19.99
Alien Breed Special Edition	10.99
Altered Beast	6.99
Ambermoon*	20.99
Amos The Creator	29.99
Amos 3D	24.99
Amos Compiler	19.99
Ancient Art of War in the Skies	22.99
Animation Classics	27.99
Another World	19.99
Apocalypse	**17.99**
Arabian Nights	17.99
Archer Macleans Pool	16.99
Arsenal FC *	16.99
Assassin	16.99
A - Train	**22.99**
A Train Construction Set	12.99
ATAC	**22.99**
AV8B Harrier Assault	22.99
B17 Flying Fortress (1 Meg)	22.99
Batman the Movie	6.99
Battletoads	19.99
B.C. Kid	16.99
Beast Lord	17.99
Beavers	17.99
Blade of Destiny	26.99
Blastar	17.99
Blues Brothers	8.99
Blob	17.99
Body Blows	**18.99**
Burnin Rubber	16.99
Caesar	19.99
Caeser Deluxe	19.99
Campaign	22.99
Campaign 2*	22.99
Campaign Mission Disks	11.99
Captive 2*	20.99
Castles (A1200)	24.99
Championship Manager 93	16.99
Chaos Engine	16.99
Chuck Rock 2	16.99
Civilisation (1 Meg)	22.99
Civilisation (A1200)	25.99
Claws*	17.99
Cohort 2	19.99
Combat Air Patrol	19.99*
Combat Classics	19.99
Conan The Cimmerian *	19.99
Cover Girl	17.99
Covert Action (1 Meg)	22.99
Crazy Cars 3	16.99
Creepers	19.99
Crusaders of the Dark Savant	27.99
Cyberspace*	22.99
D Day	22.99
Daley Thompson Challenge	6.99
Darkmere*	20.99
Dark Seed	20.99
Dark Sun: Shattered Lands *	21.99
Deluxe Music Construction Set 2.0	59.99
Deluxe Paint 4 AGA	64.99
Desert Strike	**19.99**
Dogfight*	22.99
Dreadnought	22.99
Dune	See The Greatest
Dune 2	**20.99**
Dungeon Master Chaos	19.99
Dynablaster	19.99
Easy Amos	29.99
Elvira 2 (1 Meg)	24.99
Elite 2 (Frontier)*	22.99
Entity	19.99
European Champions	**17.99**
Eye of the Beholder (1 Meg)	19.99
Eye Of The Beholder 2 (1 Meg)	21.99
Eye of the Storm *	19.99
Exodus 3010*	19.99
F1	17.99
F15 Strike Eagle 2	13.99
F16 Combat Pilot	8.99
F17 Challenge	10.99
F19 Stealth Fighter	11.99
F117A Nighthawk Stealthfighter	22.99
FA Premier League Football	**17.99**
Falcon 3 *	24.99
Fast Food Dizzy	6.99
Final Fight	8.99
Fire Force	16.99
Fire Hawk	14.99
Fire and Ice	16.99
First Samurai + Mega-Lo-Mania	19.99
Flash Back	**26.99**
Flight of the Intruder	10.99
Flight Simulator 2	**24.99**
Flight Sim 2 Western European Tour	13.99
Footballer of the Year 2	£5.99
Formula 1 Champions*	17.99
Formula One Grand Prix	22.99
Global Gladiators	**20.99**
Goal	20.99
Graham Gooch World Class Cricket	**19.99**
Graham Taylor	16.99
Grand Prix Circuit	8.99
Grusome *	16.99
Gunship 2000 (1 Meg)	**22.99**
Harrier Jump Jet *	22.99
Harpoon + Battleset 2	22.99
Harpoon Battleset 3	9.99
Harpoon Battleset 4	9.99
Harpoon Scenario Editor	13.99
Hero Quest 2	18.99
Hill Street Blues	8.99
History Line 1914-18	**22.99**
IK+	6.99
Ian Botham Cricket	10.99
Indy Jones - Atlantis Adv (1 Meg)	24.99
International Open Golf Championship	17.99
International Rugby Challenge	17.99
Interbase 2.0	29.99
Interspread	29.99
Intertalk 2.0	29.99
Interword 2.0	29.99
Ishar 2	19.99
Jack Nicklaus Golf	7.99
Jack Nicklaus Extra Courses	10.99
Jaguar XJ220 (1 Meg)	16.99
Jimmy Whites Snooker	See the Greatest
John Madden	16.99
Jurassic Park	17.99
Jurassic Park (A1200)	18.99
KGB	20.99
Keys of Maramon *	16.99
Knights of the Sky (1 Meg)	22.99
Legacy of Sorasil*	17.99
Legends of Valour	24.99
Lemmings 2 (The Tribes)	**17.99**
Lemmings Double Pack	19.99
LionHeart	18.99
Lombard Rally	6.99
Loom	12.99
M1 Tank Platoon	12.99
Macdonalds Land	17.99
Maelstrom	22.99
Manchester United Europe	8.99
Mavis Beacon 2	19.99
Messengers of Doom	19.99
Micro Machines*	12.99
Microprose Soccer	6.99
Midwinter 2	13.99
Mig 29 Fulcrum	10.99
Moonbase	34.99
Mononpoly	18.99
Morph	17.99
Myth	8.99
Narco Police	5.99
New Zealand Story	6.99
Nick Faldos Golf	22.99
Nicky 2	17.99
Nigel Mansell World Champ	19.99
Nigel Mansell World Champ (A1200)	19.99
Nippon Safes	**19.99**
No Second Prize	17.99
One Step Beyond	13.99
Operation Thunderbolt	6.99
Operation Stealth	11.99
Overdrive*	**16.99**
Pang	6.99
Perfect General	22.99
Perfect General Data Disk	14.99
PGA Golf Courses	9.99
PGA Tour Golf+	19.99
Pinball Fantasies	19.99
Pinball Dreams	16.99
Pinball Magic	6.99
Populous 2+	22.99
Populous and Promised Lands	10.99
Powermonger	19.99
Powermonger Data Disk 1	9.99
Prehistoric 2*	16.99
Premier Manager	17.99
Premier Manager 2*	17.99
Prime Mover	19.99
Prince Of Persia	6.99
Project X	10.99
Prophecy	19.99
Pro Tennis Tour 2	16.99
R-Type	6.99
Ragnarok*	22.99
Railroad Tycoon (1 Meg)	22.99
Rainbow Islands	6.99
Rampart	16.99
RBI 2 Baseball	6.99
Reach for the Skies	22.99
Realms (1 Meg)	19.99
Rick Dangerous	8.99
Road Rash	19.99
Robocop	8.99
Robocop 3	16.99
Robo Sport	19.99
Rodland	9.99
Rome AD 92	16.99
Rookies	17.99
Sabre Team	19.99
Scrabble	**20.99**
Sea Air Rescue*	22.99
Secret of Monkey Island (1 Meg)	16.99
Secret of Monkey Island 2	**24.99**
Sensible Soccer 1.1 (92/93)	16.99
Settlers	19.99
Shadow Lands	8.99
Shadow of Beast 3	19.99
Shadow Warriors	6.99
Shadow Worlds	17.99
Shoot Em Up Con Kit	8.99
Shuttle	19.99
Silent Service 2 (1 Meg)	22.99
Silkworm	5.99
Sim City Deluxe	22.99
Sim City+Populous	19.99
Sim Earth	22.99
Sim Life (A1200)	22.99
Simpsons	see Dream Team
Slicks*	12.99
Smash TV	6.99
Soccer Stars Compiliation	16.99
Soccer Kid	17.99
Space Hulk	**22.99**
Space Legends	**19.99**
Strategy Masters Compilation	17.99
Starush*	16.99
Street Fighter 2	19.99
Strip Poker 2 + Data Disk	**6.99**
Super Barbarian *	16.99
SuperCars 2	8.99
Super Cauldron	16.99
Super Fighters	17.99
Super Frog	**17.99**
Super Hero*	19.99
Super Tetris	16.99
Switchblade 2	8.99
Sword of Sodan	8.99
Syndicate	**22.99**
Syndicate Data Disk	**13.99**
Team Yankee 2 (1 Meg)	19.99
Terminator 2	See Dream Team
The Greatest	**21.99**
The Patrician	**24.99**
Their Finest Hour (1 Meg)	19.99
Toki	8.99
Tom Landry Strategy Football	27.99
Tornado*	22.99
Tracon 2	37.99
Transarctica	17.99
Troddlers	16.99
Trolls (A1200)	16.99
Trolls	16.99
Turbo Challenge	8.99
Turbo Challenge 3	16.99
Turbo Outrun	6.99
Twillight 2000*	20.00
U96*	22.99
Universal Monsters*	17.99
Utopia 2*	19.99
Valhalla	19.99
Walker	20.99
War in the Gulf	19.99
WWF 2	17.99
WWF	8.99
Wing Commander (1 Meg)	14.99
Wizkid	16.99
Woody's World	**17.99**
Worlds of Legend	17.99
Yo Joe	**17.99**
Zool A1200	16.99
Zool 2 *	17.99

AWARD WINNERS
Populous, Kick Off 2, Space Ace, Pipemania
£19.99

SPACE LEGENDS
Wing Commander, Elite, Mega traveller 1
£19.99

SPORTS MASTER
European Championship 1992, PGA Tour Golf, Advantage Tennis, Indy 500
£19.99

BOARD GENUIS
Cluedo, Scrabble, Deluxe Monopoly, Risk
£19.99

COMBAT CLASSICS
F15 Strike Eagle 2, Team Yankee, 688 Attack Sub
£19.99

2 HOT 2 HANDLE
Goldern Axe, Super Off Road Racer, Total Recall, Shadow Warriors
£19.99

DREAM TEAM
WWF Wrestlemania, Simpsons, Terminator 2
£17.99

DIZZY COLLECTION
Fast Food, Kwix Snax, Fantasy World Dizzy, Treasure Is. Dizzy, MagicLand Dizzy
£16.99

STRATEGY MASTERS
Battlemaster. Populous, Hunter, Spirit of Excalibur, Chess Player 2150
£17.99

DIZZY'S EXCELLENT ADV
Dizzy Panic, Bubble Dizzy, Dizzy-Prince of York Folk, Spellbound Diz.,Kwik Snax
£16.99

FANTASTIC WORLDS
Mega Lo Mania, Pirates, Populous, Realms, Wonderland
£22.99

SOCCER STARS
World Champ Soccer, Kick Off 2, Microprose Soccer
£16.99

FOOTBALL CRAZY
Kick Off 2 1/2 Meg, Player Manager, K02 Final Whistle
£9.99

BIG BOX 2
Back to Future 2, The Real Ghostbusters, R Type, Sinbad, Armalyte Defenders of Earth, Shangai, Bombuzal, TV Sports Football , IK
£19.99

THE GREATEST
Jimmy White's Snooker, Lure of The Temptress, Dune
£21.99

ANIMATION CLASSICS
Space Ace, Dragon's Lair2, Wrath of The Demon
£27.99

SPECIAL OFFERS

Chuck Rock	10.99
Dizzy Panic	6.96
Lure of The Temptress	
Kick Off 2 1 Meg	9.99
Kick Off 2 Final Whistle	7.99
Kick Off 2 Giants Of Europe	7.99
Kick Off 2 Return To Europe	7.99
Kick Off 2 Winning Tactics	5.99
Microprose Golf	14.99
Paperboy 2	9.99
Seymour Goes To Hollywood	6.99
The Kristal	9.99
Thunderstrike	5.99
Turbo Challenge 2	9.99
Wing Commander	14.99
Zool	13.99

EDUCATIONAL

ADI English (All Ages)	17.99
ADI French (All Ages)	17.99
ADI Maths (All Ages)	17.99
Alvins puzzles (6-8)	12.99
Better Spelling (8-10)	13.99
Better Maths (12-16)	13.99
Cave Maze (8-12)	9.99
Fun School 2 (6-8)	6.99
Fun School 2 (+8)	6.99
Fun School 2 (U6)	6.99
Fun School 3 (5-7)	16.99
Fun School 3 (U7)	16.99
Fun School 3 (U5)	16.99
Fun School 4 (5-7)	16.99
Fun School 4 (7-11)	16.99
Fun School 4 (U5)	16.99
Fun School Paint + Create (over 5+)	17.99
Fun School Spelling Fair (7-13)	17.99
Fraction Goblins (8-13)	9.99
Junior Typist (5-10)	10.99
Magic Maths (4-5)	13.99
Maths Mania (8-12)	13.99
Maths Dragons (6-13)	9.99
Merlin Maths (7-11)	17.99
Mickey's 123's (2-5)	16.99
Mickey's ABC's (2-5)	16.99
Mickey's Jigsaw Puzzles (5+)	16.99
Mickey's Colours & Shapes (2-5)	16.99
Mickey's Memory Challenge (5+)	16.99
Noddy's Play Time (3+)	16.99
Paint pot 2 (4-10)	12.99
Picture Fractions (7-10)	9.99
Playschool (3-8)	9.99
Playroom (3-8)	17.99
Prof plays a new game	16.99
Prof looks at words	16.99
Prof makes sentences	16.99
Prof hunts for words	16.99
Reasoning With Trolls (5-12)	9.99
Shopping baskets (6-8)	12.99
Tidy The House (6-10)	9.99
Which, Where & What (6-8)	12.99

JUNIOR ADVENTURE

The Wind in The Willows	13.99
The Three Bears (5-10)	13.99

JOYSTICK & ACCESSORIES

Quickjoy Topstar	17.99
Quickjoy Turbo	10.99
Quickjoy Jetfighter	11.99
Cheetah 125+	7.99
Competition Pro Extra	14.99
Competition Pro 5000	13.99
Technoplus Scorpion Junior	11.99
Technoplus Scorpion Plus	9.99
1/2 Meg Upgrade	24.99
1/2 Meg Upgrade + Clock	26.99

TDK /VERBATIM

10 x 3.5" - 7.99
20 x 3.5" - 14.50
50 x 3.5" - 35.00
100 x 3.5" - 65.00

PRECISION - BOXED

10 x 3.5" - 6.49
20 x 3.5" - 11.99
50 x 3.5" - 26.00

UNBRANDED - LOOSE

10 x 3.5" - 5.99
20 x 3.5" - 10.99
50 x 3.5" - 23.99
100 x 3.5 - 44.99

RECYCLED - LOOSE

10 X 3.5 - 4.50
20 X 3.5 - 8.50
30 X 3.5 - 12.00
40 X 3.5 - 15.00
50 X 3.5 - 17.50
100 X 3.5 - 35.00

SEASOFT

The Logical Choice

NEW – OctaMED Pro V5 – NEW

Brilliant new version of this famous 8 channel music editor with a totally new look – PULL DOWN MENUS, ON-LINE HELP, FULL MIDI SUPPORT WITH UP TO 64 TRACKS, SAMPLE EDITOR, SYNTHESISED SOUND EDITOR, STANDARD TRACKER OR TRADITIONAL STAVE NOTATION DISPLAY, ETC., ETC. – (Requires Kickstart 2 or later)

£30.00

V4 NOW ONLY £18.00 **V4 MANUAL £8.50** **V4 & MANUAL £26.00**

AM/FM

For the serious Amiga musician
Issue 15 now out
£2.50
(issues 1 to 14 also available)

AMFC

Converts many standard music files to OctaMED and MUSIC-X format
£10.00

AM/FM SAMPLES

15 disks packed with high quality samples
£2.50 per disk

ACC

AMIGA CODERS CLUB
hints, tips, tutorials & source codes for assembly language programmers
£3.50 per issue
(issues 31 now available)

TOTAL IRRELEVANCE

MLD user group (MUG) disk magazine
Issues 1 to 3 available
£1.50 per issue

ACC HARDWARE PROGRAMMERS MANUAL

Disk 1 (PD) £1.50
Disks 2-4 £5.00 each
or all 3 for
£12.50

A-GENE V4.38

The latest version of the best genealogical database for the Amiga is now available from Seasoft
£15.00

CATALOGUE DISK £1.25 (inc P&P)

FREE !
with your first order

ASSASSINS GAMES

1 to 115
latest titles available
call for list

OVER 2000 DISKS OF QUALITY P.D. AVAILABLE

including –

UTILITIES

A64 EMULATOR V2 (2)
latest & best Commodore 64 emulator
A-BASE (1)
excellent database program
A-GENE V4.18 (1)
early P.D. version of this genealogy database
AMIGA FOX V1 (1)
desk top publishing on a budget
ASTRO 22 V2 (1)
serious astrology program
C-MANUAL V3 (12)
everything you need to know about C programming on the Amiga
D-COPY 3 (1)
brilliant disk copying program
KICK 1.3 (1)
now you can run those original A500 progs on your new A500+, A600, A1200
KICKSTART 2 (1)
emulates Kickstart 2 on a 1.3 machine
M-CAD (1)
simple CAD package
MESSY SID 2 (1)
Amiga – PC file conversion
NORTH C (2)
C – compiler
NUMPAD (1)
adds a numeric keypad on an A600
SID 2 (1)
comprehensive directory utility
TEXT PLUS 3 (1)
Neat word processor/test editor

FRED FISH 1 to 900

TEXT PLUS 3 (1)
Neat word processor/test editor
V-MORPH V2B (1)
create smooth morphs & warps
PC TASK 2 (1)
latest P.C. emulator
ACC 1-4 (1)
the best of issues 1 to 4 on a single P.D. volume
AMOS PRO UPDATER (1)
a must for all Amos Pro users
EASY CALC (1)
excellent spread sheet
NCOMM V3 (1)
powerful comms package
TRONICAD V1 (1)
electronic circuit design

MUSIC

MED V3.21 (1)
last version of this classic music editor
OctaMED V2 (1)
fully functioning 8-channel music editor
OctaMED V5 (1)
non-save demo version
DESK TOP GUIDE TO ELECTRONIC MUSIC (3)
comprehensive tutorial, needs 2 drives

PD PRICES – PER DISK
(No. of disks shown in brackets)
1-4 disks – £1.50
5-9 disks – £1.25
10-24 disks £1.00
25+ – £0.90

Unless otherwise stated all titles featured in this advertisement work on A500 (1 meg), A500+, A600 & A1200

OCTAMED MODULES
MicroCraft COLLECTION (4)
OctaMED 3D (1)
OctaROCK (1)
OCTASTUFF (1)
MED USER GROUP
Collection of MED/OctaMED disks from MUG
FRIENDS OF PAULA (3)
collection of modules
NO SAMPLER? (1)
various ulities
DRUM KIT (2)
drum samples

A1200 ONLY

AGA TETRIS/UTILITIES (1)
game and useful utilities
HOI AGA DEMO (1)
brilliant A1200 demo
UCHESS (1)
the ultimate chess program – needs at least 4 meg
SUPER HAM PICS (6)
NIGHTBREED (2)
brilliant AGA slideshow
CYNOSTIC SLIDE SHOW (1)
W.B.S. BACKGROUNDS (1)
coloured backdrops for your work-bench
K.RHODES PICS (1)
AGA fractal geneator

T-BAG 1 to 77

Please add 50p P&P to P.D./Licenceware orders & £1.00 if your order includes other items

Send orders to:

SEASOFT COMPUTING
(DEPT CU), The Business Centre, First Floor, 80 Woodlands Avenue,
Rustington, West Sussex BN16 3EY
or telephone
(0903) 850378
9.30am to 7.00pm Mon-Fri (to 5pm Sat)

CLR LICENCEWARE

EDUCATION

ACHORD (£3.50)
Guitar chort tutor
T.A.M.I. (£3.50)
GCSE Maths Tutor
NIGHT SKY (£3.50)
A must for stargazers
WORDS AND LADDERS (£3.50)
Snakes and ladders spelling game
BASICALLY AMIGA (£4.99)
A must for new Amiga owners
LETS LEARN (£3.50)
Various programs for 5-7 year old
ALPHABET TEACH (£3.50)
Great for young kids
FAST FRET (£3.50)
Guitar scales tutor
WORK AND PLAY (£3.50)
Spelling made fun
PLAY IT SAFE (£3.50)
Teach kids about safety
BIG TOP FUN (3.30)
4 Circus based games
JIGMANIA (£3.50)
Jigsaw puzzle game/creator
CHESS TEACHER (£3.50)
A beginners guide
MIND YOUR LANGUAGE (£3.50)
Vocabulary course
SPEED READING (£4.99)
Improve your reading skills
CHORD COACH (£3.50)
Piano chord tutor
C.A.T.T. (£4.99)
Unlock the mysteries of the Tarot
FUN WITH CUBBY (£3.50)
8 Educational games
PREHISTORIC FUN PACK (£3.50)
4 excellent Dinosaur games
PEG A PICTURE (£3.50)
Just like the children game
UNDERSTANDING AMOS (£4.50)
Learn all about "Bobs"
SNAP (£3.50)
Teach kids shapes
THE TIME MACHINE (£4.50)
Teaches kids the time
MY LITTLE ARTIST (£3.50)
Great program (Not A500)
BOREALIS JUNIOR (£3.50)
Drawing package for kids
COMPOSITION (£3.50) AND PORTRAITURE (£3.50)
Photographic tutorials
AMOS LANGUAGE QUIZ (£3.50)
FUN WITH CUBBY 2 (£3.50)
7 great games for kids

CLR ENCYCLOPAEDIAS

The following disk based Encyclopaedias cover a range of interesting subjects. Using a combination of text, diagrams, drawings and photographs each title is entertaining as well as educational.

DINOSAURS (£4.50)
GEOLOGY (£4.50)
SOLAR SYSTEM 1 AND 2 (£4.99 EACH)
FRESH WATER FISHING (£4.99)
ECOLOGY (£4.99)
MESSERSCHMIT Bf109 (£4.99)
SPITFIRE (£4.50)
YOUR FIRST PONY (£4.50)
BASICALLY MEDICINE (£4.50)
BASIC HUMAN ANATOMY (£3.50)
KINGS AND QUEENS (£4.50)
DISCOVERY AMERICA (£3.50)
HOME INVENTIONS (£4.50)

CD ROMS

CDPD1 – £19.95
Fred Fish 1 to 660 etc.
CDPD2 – £19.95
Scope, JAM & more Fish etc.
DEMO CD – £19.95
Packed with demos etc.
17 BIT – £39.95
An instant P.D. library on this brilliant 2 disk collection

GAMES

NORRIS (£3.50)
Medievil platform game
PHASE 2 (£3.50)
Defender style shoot-em-up
X-SYSTEM (£3.50)
Shoot-em-up
TRUCKIN-ON 2 (2 drives) (£4.50)
Run your own trucking Company
DRAGON TILES (£3.50)
Excellent puzzle game
MOTOR DUAL
3D Car racing shoot-em-up
FUTURE SHOCK (£3.50)
Guide a ball through a maze
ALL GUNS BLAZING (£3.50)
2 player overhead racing game
BULLDOZER BOB (£3.50)
Great puzzle game
PARADOX (£3.50)
Puzzle games
SONIC SMATIEHEAD (£3.50)
Kids platform game
SPLODGE THE ESCAPE (£3.50)
Platform game
IMPERIUM (£3.50)
Graphic adventure game
STELLAR ESCAPE (£4.99)
Excellent vertical shoot em up
JUNGLE BUNGLE (£3.50)
Kids adventure game
FLOWER POWER (£3.50)
Kids game
MARVIN THE MARTIAN (£3.50)
Help Marvin find Daphnie
WHITE RABBITS (£3.50)
Save the rabbit, puzzle game
TIME RIFT (£3.50)
Excellent platform game
DIRTY RACKETS (£3.50)
Bat and Ball games. Needs 1.5 Meg
OG! (£3.50)
Excellent platform game

UTILITIES

VIDEO TITLER (£3.50)
Professional touch to your videos
FISH INDEXER (£3.50)
Detailed Fred Fish listing
TYPING TUTOR (£3.50)
Complete course and speed tests
ALPHA GRAPH (£3.50)
Comprehensive graphing program
WORD FINDER PLUS (£4.50)
A must for crossword fanatics
PLAY N RAVE (£4.50)
Music module linker/player
POWER ACCOUNTS (£3.50)
Keep track of your bank account
CALC V1.3 (£3.50)
Powerful spreadsheet
EPOCH V1 (£3.50)
Powerful calender system
X-STITCH MASTER LITE (£3.50)
Produce cross stitch charts
HARD DRIVE MENU (£3.50)
INVOICE MASTER (£3.50)
CREATIVE ADVENTURE TOOLKIT (£3.50)
Text adventure game creator (not A500)
FLOW CHARTER (£3.50)
Create flowcharts
PRINTER FONTS (£3.50 EACH DISK)
(LC10/20) (LC200) (24 PIN PRINTERS)
AMI BRUSHES (£3.50 EACH DISK)
for use with D-Paint 3 or 4
(F15) (RED LOTUS) (STAR FIGHTER) (STAR VOYAGER)

ACCESSORIES

(£1.00 P&P)
PYTHON 1 joystick – £9.99
ZIPSTICK joystick – £12.99
MOUSE MAT – £2.99
HEAD CLEANING KIT – £2.99
MONITOR COVER – £4.99
A500 DUST COVER – £2.99
A600 DUST COVER – £2.99
A1200 DUST COVER – £3.99
PRINTER STAND – £4.99
PRINTER LEAD (1.8m) – £3.99
PRINTER LEAD (5.0M) – £6.99
PARNET LEAD (inc s/w) – £10.00
4 PLAYER ADAPTOR – £5.99
JOYSTICK EXTENDER – £4.99
M/J SWITCH MANUAL – £9.99
M/J SWITCH AUTO – AUTO £12.50
ALFA DATA MOUSE – £12.95
100 DISK LABELS – £1.50
1000 DISK LABELS – £10.00
1000 T.FEED LABELS – £12.50

DISKS
3.5" DSDD GRADE A – 50p
3.5" DSDD BRANDED – 60p
3.5" DSDD TDK – £7.00 FOR 10

DISK BOXES
3.5" x 10 – £1.25
3.5" x 40 – £4.50
3.5" x 100 – £5.99
3.5" x 80 BANX – £10.95
(please call to confirm price and availability)

VISA

GET SERIOUS

Let's get serious, with another selection of goodies from the CU AMIGA technical experts.

108 Lola 520 Modulator
109 Mastering AmigaDOS 3 Volume 2
109 Megamouse 400
109 Nexus Pro Video Clips
110 Brilliance
120 Genlock Jungle
124 Overdrive
126 Golden Image AGA Hand Scanner
132 Wired World
144 Art Gallery
150 PD Scene
155 PD Utilities
158 Reader Offers

TOP RATED

The CU AMIGA top rated accolade for non-games products scoring over 90%. They will definitely be worth the money and are likely to act as a benchmark for future releases.

LOLA 520 MODULATOR

When your modulator finally packs up, why not push the boat out and go for one with a stylish mat-black finish? If you think you're ready for such a radical move, you may want to take a look at Lola Electronics' *520 Modulator*.

Apart from the colour, there's very little difference between this and the standard Commodore modulator. It's almost exactly the same size, which means that it's got a 15cm (6 inch) overhang at the back of the computer.

The main alteration is the positioning of the composite video and audio sockets. These were a bit of a problem on the Commodore modulator, as they were on the side of the box. If you have a sampler or some other peripheral plugged into the parallel port, the sockets on the Commodore model can be very tricky to connect up. The Lola modulator has all three: TV, composite video and audio sockets on the end of the unit. It also comes with a long TV connection lead, and a Y-adaptor lead to route the stereo sound channels in the mono input on the modulator.

At £29.95, it's probably cheaper than the Commodore option, in which case it wins hands down.

**Available from: Lola Electronics,
Market Harborough, Leicestershire.
Tel: 0858 880182. Price: £29.95.**

80%

PAL
TV ADAPTER
L520

MEGAMOUSE 400

It amazing how much difference a mouse can make to your computing comfort. You could have the fastest machine imaginable, with a pristine monitor, 16-bit sound and a 24-bit graphics card, but if your mouse is on the blink, you'll soon be kicking holes in the wall with frustration. The problem isn't limited to old mice – even shiny new ones can be a pain if they're badly designed, so choosing a replacement isn't as simple as you might think.

The Golden Image *Megamouse 400* is a good option for those who like their rodents on the petite side. Although not excessively small, it is noticeably smaller than the Commodore mouse, and is about the size of an Apple Mac one. Both buttons have very light switches, but it still gives you the feedback you need.

Anyone upgrading from an old Commodore mouse who is into graphics, or anything else that involves precise mouse movements, will instantly notice the difference made by the 400 DPI resolution. This is about twice the resolution of the original Amiga mouse, and makes fine editing much easier. The increased resolution also has the effect of speeding up the pointer movement, so if you find even the fastest setting on the Workbench preferences too slow, this will remedy the situation. Anyone in need of a replacement mouse should consider the *Megamouse* 400.

Available from: Golden Image, Unit 12a, Millmead Business Centre, Millmead Road, London, N17 . Tel: 081 365 1102. Price: £14.95

88%

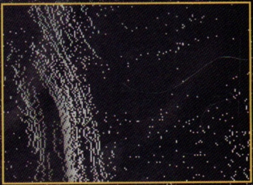
NEXUS PRO VIDEO CLIPS

Although they're aimed squarley at video producers, the Nexus series of clip art disks would be just as much use to anyone involved with 3D ray tracing and animation. There are five ten-disk sets, each of which is devoted to fabrics, papers, textures, travel, or weddings. There's also an introductory set which includes samples from all five categories. All graphics are available in 16 colours or 256/HAM8 mode for AGA Amiga owners.

The textures could be used simply as backdrops for video titles, or as texture maps for 3D objects. Not as versatile are the digitised pictures, such as the postcard-style shots of historic buildings and tourist attractions in the Travel set. For producers of wedding videos, there are satin backdrops and ornate flower arrangement (how romantic). The picture quality varies from good to excellent. They probably won't bowl you over, but if you feel the need for some practical video clip art or texture maps, they're well worth investigating.

**Available from: Videoworld, 8 Ardoch Gardens, Cambuslang, Glasgow, G72 8HB.
Price: £29.99 per set**

78%



ACCESS AMIGA

ACCESS
Amiga

This is the first issue of a new magazine from the people behind *Amigamaniac*. After running the *Amigamaniac* club and its accompanying magazine for some time, the organisers have now progressed to *Access Amiga*, a full 44-page A4 mag that comes with a covermounted disk. You get all this for just £1.75.

The new *Access Amiga*, like the *Amigamaniac* mag, covers the whole range of 'serious' uses of the Amiga. There are regular sections on PD, books, letters, music and education, along with reviews of the latest hardware and software developments. There are also numerous features on various Amiga-related subjects which offer some alternative to the reviews.

While it can't match the gloss of the major Amiga mags, it does have a rather endearing, more personal style. Highlights of the October issue include an Eric Schwartz special, and an interview with Bjorn Lynne of the AM/FM disk mag. The coverdisk has a cut-down demo of an educational game, plus a couple of tunes from AM/FM.

Available from: Weekend Developments, PO Box 208, Folkestone, Kent, CT19 5EZ. Tel: 0303 220198. Price: £1.75 per issue, £10.50 for six or £19 for a year's subscription.

81%

The Best Effects Are
Produced By Placing
A Starfield Behind
The Main Graphics

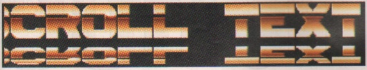
ACC HARDWARE PROGRAMMING MANUAL

Programming the Amiga's hardware directly isn't something that Commodore like to promote. If they had their way, everything would go via the operating system which has the advantage of greater compatibility with both new and old machines, but if you're programming things like games and demos, where speed is essential, this method is just too slow. Getting hold of information and tutorials on the hardware can be quite a task, but now you can swot up on all the finer points of your Amiga's chips with the *ACC Hardware Programming Manual*.

ACC (Amiga Coders Club) have been going for some time now, producing regular PD disks on programming the Amiga in general. The 'manual' comes on four disks. The first is PD, while the following three are available for £5.00 each. Disk one is an introduction to the series and assembler in general. The second covers input, the copper, interrupts, audio, general and start-up. Disk three is dedicated to display and the fourth concentrates on sprites, text, the blitter and scrolltexts. There are loads of examples, each of which is explained in an easy-to-digest manner, and can be tested out by simply clicking on their icons. Source code is of course included with all of the examples. The source code and assembled versions make this a far easier and more interesting way to learn about the Amiga's hardware than from a book, and should be on the shopping list of every budding programmer.

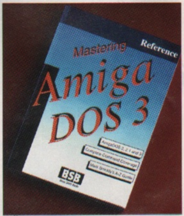
Available from: Amiganuts United, 12 Hinkler Road, Southampton, Hants, SO2 6FT. Tel: 0703 470017. Price: Disk 1 £1.25, disks 2-4 £5.00 each. Add 60p post+packing for each order.

89%



MASTERING AMIGADOS 3

VOLUME 2



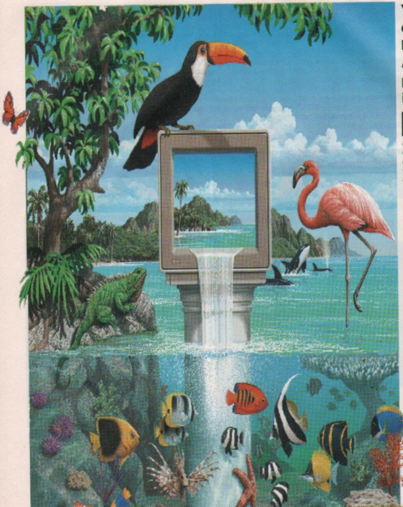
The manuals supplied with the A1200 and 4000 might be okay if you just want to know how to use the Workbench menus and open a few windows, but if you want to get your hands dirty in the Shell, you're left wanting. This is where *Mastering AmigaDOS 3* comes into its own.

Volume one covered the basic theories of AmigaDOS 3, while Volume 2 is more of a reference guide. It covers all of the CLI (Command Line Interface) commands in alphabetical order, giving plenty of explanations and examples. Sections on areas other than Shell are also included. The new hypertext system, AmigaGuide, is covered, along with some of the other new goodies that turned up with Workbench 3.

If you're a newcomer to AmigaDOS, this isn't really the book for you. Check out Volume 1 first, if that's the case. On the other hand, if you've got a reasonable idea of how AmigaDOS works, but want to know how to do more than just copy files and list directories, this is exactly what you'll need to get swotted up on all those labour-saving commands. The author, Mark Smiddy, has provided an exhaustive, but very readable guide to a complex subject, but presented it in such a way that it doesn't seem so complex after all. Whether you want to go through from start to finish, or just look up a command every now and then, it's the ideal companion to your new Amiga.

Available from: Bruce Smith Books, Freepost 242, PO Box 382, St Albans, Herts, AL2 3BR. Tel: 0923 849355. Price: £21.95

81%



Yet another *Deluxe Paint* challenger has arisen. Mat Broomfield wonders if the Amiga's number one art package has finally met its match.

For more than six months adverts have been appearing in the American Amiga mags for a new high-end art package called *Brilliance*. In actual fact, you get two programs for the price of one. *Brilliance* is a register-based art package designed to work in all non-HAM screen modes, whilst *True Brilliance* is a True-Colour package designed to work in HAM mode.

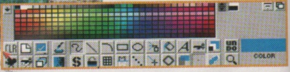
True Brilliance represents all graphics internally in 15-or 24-bit colour, and modifies this representation to display images in the current screen settings. These images can be saved to disk either as 15-or 24-bit files. This means that you have a way to create and edit files in full-broadcast quality.

A NEW APPROACH

The program's authors, Digital Creations, have given the entire subject a radical rethink, and the result is a program which has absolutely no menus in the conventional sense. This is a bit of a double-edged sword because it means that once you know how to use it, *Brilliance* is more user-friendly than *DPaint*, but getting to grips with it is harder because the options are far from self-explanatory.

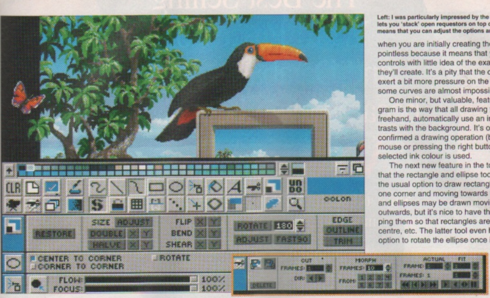
The basic functions of the program are accessed via a tool bar which runs along the bottom of the screen. There are thirty different tools, each represented by an icon, although to call them all tools is not strictly accurate. Of course, there are basic tools such as spray can, line draw, freehand and so forth, but there are also icons whose selection enables you to access a whole new set of related features. Good examples are the palette, animation and file requestor icons.

Many of the icons have multiple functions according to how many times you select them, with which mouse button and with what options you use them. For example, the airbrush icon will produce a standard airbrush the first time it's selected, but this switches to a splatter brush the second time it's clicked upon. Click once more and it changes again to give you a stencil airbrush



Years in the making, *Brilliance* is the program that proves there is life beyond *Deluxe Paint*. This gorgeous Sachs original is rendered in 256 colours at a size of more than 800x800 pixels.

A mark of Brilliance



Left: I was particularly impressed by the way that *Brilliance* lets you 'stack' open requestors on top of each other. This means that you can adjust the options and still see the screen.

Above right: Among other things the Anim Brush menu lets you create smooth animated transitions (morphs) between the current brush and any of the eight other brush buffers.

FILE FORMATS

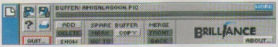
As the Amiga is used more and more in professional environments, a variety of import and export formats is quite important. *Personal Paint* scored strongly in this area, and *Brilliance* does at least make effort with its ability to load and save every type of IFF file from ordinary 5-bit right through HAM6 and HAM8 to 15-and 24-bit images. It can even deal with DCTV saves, although this is not surprising as Digital Creations manufacture that too.

It's sad to see that there is no provision for formats such as GIF, Targa, Tiff or any of the others which are frequently used in the professional world.

mode. If you select the icon with the right mouse button, a requestor appears that allows you to adjust the size, flow and focus of the spray.

Running along the top of the tool bar is the 64-colour palette and if you're using an AGA Amiga this increases to a maximum of 256 colours unless you're working in HAM8 mode, in which case the palette contains 384 colours. By expanding the palette, you can see up to 256 colours at any one time.

At the right of the tool bar is the status indicator which makes *Brilliance* extremely accessible. The status indicator tells you a number of things: such as whether the cursor is currently on the drawing area of the screen, or the cursor's exact location. If the cursor is on any of the tool bar options then the option name is written in the status indicator, below which is written the current 'draw' option. The status indicator is also used to show the progress or dimensions of quantifiable operations, for example the length of a line or the angle of a rotation.



STRANGE FEELING

Despite the fact that the status indicator is there to keep you well informed, using *Brilliance* feels very alien for a while, and it was only when I had read the accompanying manual from cover to cover that I really began to appreciate the sheer scope of its enhancements over the *DPaint* way of doing things. The manual is very easy to understand, but the tutorials vary between being overly-simplified at the beginning, to ridiculously brief at the end. One particularly frustrating thing was that the author kept referring to complicated features that he had yet to explain.

On the surface, *Brilliance* looks like just about every other Amiga art program. It has the same old drawing tools: freehand, line, rectangle, spray-can, arc and so on. However, *Brilliance* also has a bezier curve option for drawing complex curves (curves which bend in two directions like an 'S' or which describe an arc greater than 360 degrees like a loop). Bezier curves consist of four elements: two end points which represent the start and end of the curve, and two control points which are used to drag the curve into shape. This option is really useful, but for some reason the designers thought it wise to make you position control points when you are initially creating the curve. This is pointless because it means that you're placing the controls with little idea of the exact curve that they'll create. It's a pity that the control points don't exert a bit more pressure on the lines because some curves are almost impossible to create.

One minor, but valuable, feature of the program is the way that all drawing tools, except freehand, automatically use an ink colour that contrasts with the background. It's only when you've confirmed a drawing operation (by releasing the mouse or pressing the right button) that your selected ink colour is used.

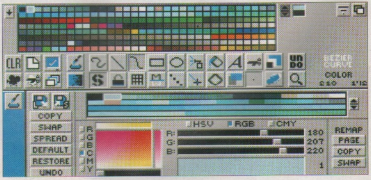
The next new feature in the tool bar is the way that the rectangle and ellipse tools work. You have the usual option to draw rectangles starting from one corner and moving towards the opposite one, and ellipses may be drawn moving from the centre outwards, but it's nice to have the option of swopping them so that rectangles are drawn from the centre, etc. The latter tool even has the additional option to rotate the ellipse once it's drawn. This is not necessary because *Brilliance* has very flexible brush handling and manipulation options.

FLEXIBLE BRUSH HANDLING

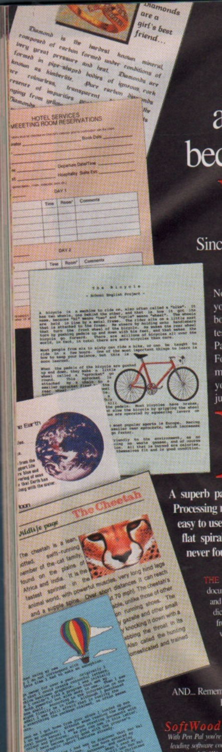
When it comes to cutting out a brush, *Brilliance* comes out tops again. In rectangle cut mode, the four lines border the area being cut, unlike *DPaint* which simply boxes the area. *Brilliance*'s rectangle cut mode lines extend to the edge of the screen which for some reason makes it much easier to cut a precise rectangle.

In carve cut, you are permitted to cut a freehand shape, rather than defining a shape as a series of short lines. This shape is actually stored exactly as you cut it rather than transforming it into a rectangle as *DPaint* does.

The program can store up to nine brushes at a time, eight in buffers plus the one in use. When a new one is selected from a buffer, the current one replaces it in the buffer. Having chosen a brush to manipulate, the Brush Distort menu contains options to re-size it, flip it, bend or shear it. You can add a single pixel outline or trim a single pixel from its edges. You can also rotate it – another of those tiny, but very significant enhancements. The rotate requestor now allows you to rotate a brush by a specific number of degrees. When the rotation is performed it takes into account the aspect ratio of the original so that distortion doesn't occur when using rectangular pixels (in interlace mode »



Right: The palette requestor lets you create a full spectrum of colours using a choice of three colour models: RGB, CMY or HSV. *True Brilliance* represents these registers as 24-bit data..


Diamonds are a girl's best friend...
HOTEL SERVICES
MEEETING ROOM RESERVATIONS
The Bicycle
The Cheetah
Wildlife page

The Best Selling Word Processor and Database just became even better...

VALUE!

Since its launch, Pen Pal has become the most popular package of its type

Not surprising when you consider the extensive features at your fingertips, combined with user friendly simplicity, it was bound to be a winner! In a comprehensive Word Processor test, Amiga Format commented "There is little to fault Pen Pal, it deserves to do well" - quite a prediction it seems! Format have since said that it's "Still the best value for money..." If you're not a Pen Pal user yet, we hope you soon will be, because at just £49.95... the best just became better, even better value!

Pen Pal
Word Processor for the Amiga
Pen Pal
Word Processor for the Amiga
Pen Pal
Pen Pal

Pen Pal

A superb package, with immense power, to fulfil all your Word Processing needs, and... with an integrated Database too! It's all so easy to use, you'll rarely need to refer to the extensive 250 page lay-flat spiral bound manual. Users frequently tell us that they've never found a program they get on with so well.

THE WORD PROCESSOR: You can... Open multiple documents simultaneously; search and replace; cut, copy and paste; check your spelling with a 110,000+ word dictionary; import your favourite IFF/HAM graphics, from programs such as DPaint, or Clip Art files in various sizes and colours; automatically flow text around graphics in any Workbench compatible font (there are over 200 available styles) in different sizes and colours to suit your design... Even as you type! Full Page View with position, edit and creation of graphic objects an extremely useful forms designer. All this from a word processor and Much, Much, More! As you can see from the documents shown on the le this is no ordinary program!

THE DATABASE: With 32 fields per record, 32,000 records per database an a fast son of 1000 records in less than 5 seconds, this is a *real* databa Mail merging into the Word processor couldn't be simpler, with easy creation of templates for letters or reports, into which information can be merged.

AND... Remember, Pen Pal comes with full support for the new or experienced user completely free! Friendly help for all registered owners is just a phone call away.

SoftWood - Quality software for your Amiga

*With Pen Pal you're not just getting a one off product! SoftWood are acknowledged as the World's leading software company who develop **just** for Amiga and **no other** system. Once you're a registered SoftWood product owner your investment is protected as you'll have access to unlimited free technical support [others charge you] and preferential upgrades to other SoftWood titles, both existing and future. Exciting new products are being developed right now. Pen Pal - your first step on the SoftWood ladder of Amiga software*

Pen Pal is available from all good Amiga software Dealers or from SoftWood. Call for our list of stockists.

SoftWood Products Europe
PO Box 19 Alfreton
Derbyshire DE55 7RW England
Tel: 0773 836781 Fax: 0773 83

Pen Pal is compatible with any Amiga from A5
latest A1200/A4000 ranges with a
of 1 Mb. available free

MOVE IT

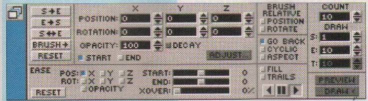
Brilliance has some very nice animation features spread across three separate menus. The first of these is the Animation menu and it provides video-style controls so that you can set up and play your animations. The program can replay animations at speeds up to a staggering 99 frames per second, thanks to the fact it uses the new Op-8 Long animation format which is ideal for machines with faster processors. It also supports Op-8 Word and Op-5 Byte formats. The latter is used by *Deluxe Paint* so your files will be interchangeable.

Strangely enough, the program doesn't come with a stand alone replay utility which is a bit restricting, especially with the two newer animation formats.

Anyway, moving along from the animation menu, the Anim Brush menu lets you perform morphs from the current brush to any of the eight brush buffers. It also lets you pick up Anim brushes from an animation you may have created. What makes this section particularly powerful is the fact that you can pick up any number of sequential frames, starting and ending wherever you like within an animation and moving forwards or backwards through it.

However, all of this is just window dressing because *Brilliance* hides its real power away in the Tweening menu. Tweening is the process of getting the computer to calculate animation based upon a couple of key frames that you define manually. *DPaint 3* and *4* both provide limited Tweening, and *Brilliance* takes the concept to entirely new heights.

You can specify both the exact starting and end points of a brush to be animated, as well as any rotations to be performed upon it. You can even specify a brush's opacity (how solid it appears to be) from one frame to the next. This means that you can create animations where objects fade in or out of view.



As with *DPaint* you can define the 'ease' of a brush's movement (how quickly it gains and loses acceleration), but *Brilliance* takes this considerably further because each can be specified in all three axes and in all rotational axes as well. This means that it's finally possible to create curved and tangential movement paths.

Another new feature is the Decay option which when used in conjunction with Trails (which leaves a trails behind of course!) causes the trail to decay to nothing at a user-defined rate.

Perhaps the most significant improvement is a feature called Adjust. This lets you control the movements of your animation in real time, dragging brushes where you like as the animation plays.

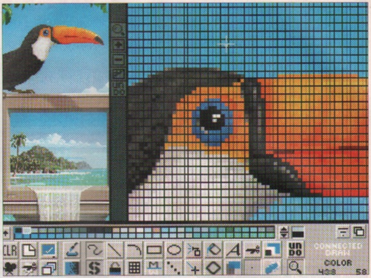
I can't finish the subject of animation without mentioning the frame slider. This is just a slider which you can use to look back and forth through your animation. Nothing particularly shattering, but it's so much nicer than having to step through it frame by frame using the keys.

Speaking of keys, it's worth noting that wherever possible, Digital Creations have kept *Deluxe Paint*'s keyboard shortcuts, so fortunately you won't have to learn them all over again.

PRINTING ERRORS

Brilliance has the most user-friendly and flexible printing section of any Amiga art package. Not only does it allow you to specify the usual stuff such as print density, dither and smoothing control and dump size, it also lets you print your image as a negative or mirror image.

Unfortunately, one glaring error makes the printing section unbearably irritating; there's no way to save your preferences once you've defined them. This means that you are condemned to reset them every single time you load the program. A big black mark against Digital Creation's scorecard for that one!

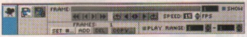


When working in magnify mode, an optional pixel grid makes it much easier to create pixel-perfect drawings.

» for example). Such an obvious option, yet one which has been notable by its absence from every Amiga art package to date. This simple option means that you can easily create complex shapes with mathematical precision!

When you choose the 'brush distort' requestor, rather than replacing the tool bar, a new requestor appears below it pushing the tool bar upwards to make room. This means that requestors now occupy over a third of the screen.

You might think that this would be intrusive, but quite the opposite; in fact it's very handy to have the options you're using visible on the screen whilst you use them. In any case, pressing the space bar makes all the requestors and the tool bar disappear (or reappear) leaving just the screen and the current cursor. If that's a tad too radical for you, you might prefer the collapse menu option which tucks all the requestors back out of sight leaving just the tool bar. A second click brings the same menus back out to play!



INFORMATION OVERLOAD

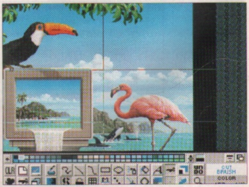
The most confusing new feature of the program is the draw mode menu. The items in this menu affect all the drawing operations, although not every item can be applied to every operation. The default is a pixel mode called 'color'. In this mode, the selected colour is applied with no modification anywhere that the pen, filler, spray can or brush is used. Other pixel modes change either the colour of the existing image or of the ink that's applied to it. For example, tint uses the current ink colour to apply a wash anywhere that ink is applied.

'Cycle' on the other hand, uses the colours in the current range to create multi-coloured effects. If you're drawing lines then they'll be divided into coloured sections; if you're using the spray-can each droplet will be a different colour. There are even some image processing options such as not, negative, lighten and darken.

What makes the draw mode menu so confusing are the multiple conditions that must be met before some of the options can be used.

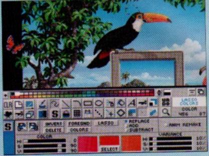
For example, the perspective-fill mode can only be used if a brush is selected and you're in fill mode and you've already predefined the perspective to be used.

Like *Personal Paint*, *Brilliance* supports both colour and percentage dither modes, in other words graduations from one colour to »



another can either be represented by a pattern of »

STUNNING STENCILS



For advanced users, a program's stencil mode can save a great deal of time, especially when animating. This is one of *Brilliance*'s great strengths because it has some really clever ways of defining stencils. These vary according to the program you're using (*Brilliance* or *True Brilliance*) but there are some features common to both programs.

In case you don't know what a stencil is for, it can serve two purposes: to protect part of a picture from being changed by drawing operations, or to include only certain parts of a picture in those operations. Stencils are usually defined by choosing certain colours or ranges of colours and then any part of the picture that uses these colours becomes protected by or included in the stencil operation.

The big problem can be in selecting the colours which will be part of the stencil, especially if you have a large palette. The usual way is for the user to click on parts of the image drawn in the required colour or to simply select that colour (if known) from palette. *Brilliance* supports these options but it also provides a number of other novelties. The first of these is called Lasso and, as you may have guessed by its name, it lets you draw a lasso around the colours to be included in the stencil. This is a very easy way of selecting multiple colours in a single operation.

The next option (and my favourite) is to be found in the draw mode requestor. Unlike colour stencils it allows you to draw the area of the picture that you want protected from modification. Therefore if you draw a stencil rectangle on your screen, the area beneath that rectangle cannot be altered until the stencil is freed.

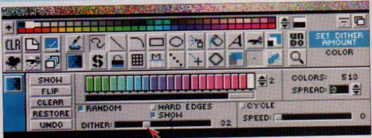
Colours included in the current stencil are shown in the palette as circles so that you can quickly identify the ones that are included and the ones that aren't.

» gradually changing colours, or by using just two colours and altering the percentage of one colour relative to the other. The latter method is great for high-resolution work with a limited palette. Unlike *Personal Paint*, *Brilliance* also provides a full choice of directional, linear and radial fill types, and these can be made responsive to the shape being filled if required.

INTELLIGENT GRADIENTS

One of the more important sections of the program is the gradient requestor for this is where you will define any colour ranges to be used. Colour ranges are important when using the various cycle options, to say nothing of their primary function which is to create dithered fills. Like most range requestors, a range may be defined by placing two or more colours from the palette onto a grid. The program then automatically calculates the transition from colour to colour.

Yet again, Digital Creations have added their own touch of inspired magic to the requestor in the form of several very useful enhancements. For starters, you can define what's known as a 'spread'. The spread represents the number of colours that will be used at each step of a colour range. For example, if the spread is set to three, two adjacent colours on the colour rack will take three colours to graduate from one to the other. If the same colours are placed one step apart (with no other colours between them), the transition will use six colours. When defining a range for the purpose of colour cycling, you can even use colours in the spreads, that don't exist in the normal palette.

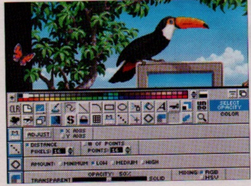


The gradient requestor is incredibly powerful and it even lets you define colour cycle ranges using colours that aren't even in the palette.

The other neat feature is known as 'hard edges', and it allows you to define certain colours in a spread which will not be dithered when a graduated fill is created. Therefore, you could define a range from black to red to blue to white and specify that the red/blue part of the dither range should have a hard edge. The black to red and blue to white sections will be dithered as normal, but there will be a perfectly sharp edge where the red changes to blue. Unfortunately, this option is not particularly stable due to some sort of programming bug.

If you use magnify mode very often you'll doubtless appreciate the program's grid option which is particularly useful when copying from paper if you're working on large areas of a single colour, or if the magnification level is very low.

The Opacity option means that animators can finally create fade effects with ease. In fact the program's animation features are a major improvement over *DPaint*'s way of doing things.



CONCLUSION

Many of the improvements in *Brilliance* are quite subtle, but extremely significant in terms of user-friendliness and power. The animation and tweening requestors are extremely powerful making this the art package of choice for video users. Never before have fades been so easy to create. Having to swap programs when you move from HAM to ordinary mode is a bit inconvenient, especially for floppy disk users, and I'm not entirely certain why Digital Creations created the programs like this.

The program requires a minimum of two megs of RAM to run, but if you're working on an AGA machine in HAM mode you won't be able to achieve anything unless you have three megs or more.

It's very hard to express why I'm so taken by *Brilliance*, there's just a feeling of 'rightness' about the way that it works. If it weren't for the dongle-protection system, I would immediately delete my copy of *Deluxe Paint* and replace it with *Brilliance*.

As it is, the inconvenience of having to plug the dongle in each time I need a graphics package prevents me from doing this immediately.

This inconvenience is a real shame because, as far as I'm concerned, *Brilliance* is now – leaving *DPaint* trailing in its wake – the best art package available for the Amiga. CU

DIGITAL CREATIONS £194.95

A500 ☑ A500+ ☑ A600 ☑ A1200 ☑
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

Needs *Kickstart* 1.3 and 2 megs of RAM and 2 floppies or 1 floppy and a hard drive.

Meridian Distribution, East House, East Road Industrial Estate, London, SW19 1AH, 081 543 3500.

EASE OF USE ◆◆◆◆◆◆◆◆◆◆ 85%
Takes a bit to learn properly but plain sailing once you know what you're doing.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ 30%
A wonderful package, but ridiculously expensive.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆ 95%
A couple of minor bugs, but they're not intrusive and the program is very powerful.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ 95%
More features than any non 24-bit graphics packages to date.

INNOVATION ◆◆◆◆◆◆◆◆◆◆ 88%
Digital Creations have moulded existing technology to their own unique way of doing things.

> *Easily the new king of the heap for non-24-bit art packages but the price is a real killer.*

OVERALL 83%

GREY-TRONICS LTD

081-686 9973

LOWEST PRICES **CUT PRICES** **BEST SERVICE**

DISKS DISKS DISKS + LOCKABLE BOXES

100% CERTIFIED ERROR FREE

50 35." DS/DD	**£22.99** + 100 cap lockable box	£25.99
100 3.5" DS/DD	**£36.99** + 100 cap lockable box	£39.99
200 3.5" DS/DD	**£69.99** + 2X 100 " "	£75.99
300 3.5" DS/DD	**£104.99** +3X 100 " "	£110.99
400 3.5" DS/DD	**£139.99** + 4X 100 " "	£147.99
500 3.5" DS/DD	**£165.99** + 5X 100 " "	£182.99
1000 3.5" DS/DD	**£295.00**10X 100 " "	£335.99

FREE LABELS + FREE DELIVERY BY PARCEL FORCE

3.5" LOCKABALE DISK BOXES

40 Capacity	£3.99
100 Capacity	£4.50

Add £3.10 P&P

3.5" HIGH DENSITY DISKS

100% CERTIFIED ERROR FREE - FREE LABELS

100 DISKS £55 FREE DELIVERY

AMIGA CD32

NEW!

2GAME PACK

£284.99

LIMITED STOCK FREE DELIVERY

AMIGA 600

FREE 4 Games: Space Ace, Kick Off 2, Pipe Mania, Populous

1 YEAR AT HOME SERVICE

Basic Pack	189.99
Wild, Weird, Wicked	219.99.
Epic Pack 40Mb HD	339.99

Free Delivery

AMIGA 4000

Please Call

AMIGA 1200 HD

30 Mb	Hard disk	384.99
60 Mb	Hard Disk	439.99
80 Mb	Hard Disk	479.99
120 Mb	Hard Disk	519.99

ADD £10.00 For Nigel Mansion & Trolls

Free Delivery

AMIGA 1200

Basic Pack 2Mb Ram

£279.99 INC VAT

Limited Stock Free Delivery

NIGEL MANSION+ TROLLS

GAME £5.00

Free Delivery

BRANDED DISKS

SONY- 3M - JVC - TDK

QUANTITY	DS/DD	HIGH DENSITY
50 3.5"	31.99	51.00
100 3.5"	60.00	100.00
200 3.5"	118.00	196.00
300 3.5"	171.00	289.00
500 3.5"	275.00	475.00

Free Labels Free Delivery

TOP QUALITY RIBBONS

	1Off	2+	5+
Panasonic KXP1080/1180/1123/1124	3.45	3.30	2.99
Panasonic 2123/2180 ColOrig	14.95	14.45	13.95
Panasonic 2123/2180 Mono Orig	8.50	8.15	7.75
Citizen 120D/Swift 9/24	2.85	2.70	2.50
Epson LQ400/500/800/850	3.45	3.30	3.10
Star LC10/20 Black	3.50	3.25	3.00
Star LC2410/24 200 colour Orig	12.95	12.50	11.95
Star LC200 Black	3.00	3.25	3.00

Add £2 for Delivery

AMIGA CABLES

Amiga To TV Scart	£10.99
Amiga To Sony TV	£10.99
Amiga To Amiga	£10.99
Joystick Splitters (2)	£5.99
Joystick Extension Lead 10ft	£5.99
Printer Lead	£4.00
Universal Printer Stand	£4.99

DUST COVERS

Amiga 1200/500/500P	£4.00
Amiga 600	£4.00
Star/Citizen/Panasonic Printers	£4.00

INKJET CARTRIDGES & REFILLS

HP Deskjet Black Ink Cartridges	£14.99
HP Deskjet Black Ink Refill	£9.99
HP Deskjet Black Dual Capacity Cartridge	£21.99
HP Deskjet Black Dual Capacity Refill	£14.99
HP Deskjet 500 C Colour Cartridges	£25.99
HP Deskjet 500 C Colour Refill	£16.99
Cannon BJ 10e/ex Black ink Cartridges	£16.99
Cannon BJ 10e/ex Black ink Refill	£9.99

Add £2 for Delivery

PRINTERS

Panasonic 1170 9pin Mono	£135.00
Citizen 120D 9pin Mono	£125.00
Citizen Swift 90 9pin Mono	£165.00
Citizen Swift 90 9pin Colour.	£185.00
Panasonic 1123 24pin Mono	£165.00
Panasonic 2123 24pin Colour	£215.00
Citizen Swift 200 24pin Mono	£190.00
Citizen Swift 200 24pin Colour	£215.00

MONITORS

Commodore 1084 ST	£194.99
Commodore 1940	£274.99
Phillips 8833 II + Game	£219.00

FREE LEADS & DELIVERY

ACCESSORIES

3,5" Disk head Cleaner	£2.99
Mouse Mat	£2.25
1000 Labels	£10.00
AMIGA External Disk Drives	£57.99
Primax Mouse Amiga	£12.50
Universal Printer Stand	£4.99

Add £2 for Delivery

ALL PRICES INCLUDE VAT & DELIVERY WITHIN 3 DAYS (UK MAINLAND ONLY).
ADD £8.00 FOR NEXT DAY DELIVERY CALL IN OR SEND CHEQUES/POSTAL ORDERS TO:

GREY-TRONICS LTD, UNIT 1015 WHITGIFT CENTRE,
CROYDON, SURREY CRO 1UU

SALES HELPLINE: 081 686 9973 Mail order prices only **FAX: 081 686 9974**

All offers subject to availability. E&OE. Prices/Pack details may change without notice due to currency fluctuations. Please allow 6 working days for cheques to clear.

Access VISA SWITCH

amiga First Choice public domain

THE ORCHARD, 139 HIGHRIDGE GREEN,
BISHOPSWORTH, BRISTOL BS13 8AB

PLEASE MAKE ALL CHEQUES AND POSTAL ORDERS PAYABLE TO:-
FIRST CHOICE P.D.

ALL ORDERS DESPATCHED FIRST CLASS. PLEASE REMEMBER TO ADD P&P CHARGES.
PLEASE STATE MACHINE WHEN ORDERING.
PD PRICES ARE PER DISK - NOT PER TITLE.
NUMBER OF DISKS (IF MORE THAN ONE) IS SHOWN IN BRACKETS.

TELEPHONE ORDERS AND ENQUIRES
(0374) 446776
ACCESS AND VISA

FIRST CHOICE PUBLIC DOMAIN AT BARGAIN PRICES

ALL FORMATS

ALL DISKS LISTED BELOW ARE COMPATIBLE WITH ALL AMIGA'S WHEN DISKSTART V1.3 IS USED ON A500+/A600/A1200/A4000.
K001 - DISKSTART V1.3 AVAILABLE FROM US

GAMES

G10 - POM POM GUNNER - Great graphics in this Terminator 2 style shoot em up.
G043 - WIBBLE WORLD GIDDY - Superb platform game. The best public domain game ever.
G046 - TANX - Addictive tank V tank action, in the style of the BBC classic.
G048 - NEIGHBOURS - (2 disks) Best graphic adventure ever available in PD.
G049 - FIGHTING WARRIORS - Budget version of Streetfighter 2 with excellent graphics. Limited options is the only thing that lets it down.
G050 - BOMB JACKY - The Spectrum classic with good graphics and music.
G044 - ELEVATION 2 - Great sequel to the original.
G046 - PETERS QUEST - Good platform game.
G047 - SUPER PAK MAN - If you like PAK games then get this disk!!!
G052 - CURLY SUE - A first rate cute platform game.
G053 - CURLY SUE 2 - Sequel to the all time best selling public domain platform game.
G054 - JETMAN - A spectrum classic converted to the Amiga with better sounds and graphics.
G040 - PARADOX - A funky puzzle game.
G039 - SMURF HUNT - One of the better games produced with the shoot em up construction kit.
G055 - TEXAS CHAINSAW MASSACRE - Good cut em up, but gets a little repetitive
G051 - BALDERS GROOVE - Boulder Dash type game.
G011 - AIR ACE 2 - Excellent graphics. Another made with the shoot em up construction kit.
G028 - PIPELINE - Popular game, compatible but too fast on A1200.
G015 - MEGABALL - Excellent futuristic game based on squash. The aim is to hit all bricks away by deflecting the ball.
G056 - 18 HOLE GOLF - First ever public domain golf game. (2 Disks)
G057 - SPACE INVADERS 2 - A revised version of the classic Spaceinvaders.
G058 - RESCUE - A game like Scramble with good graphics.
G059 - AMOS CRICKET - For fans of the sport only.
G060 - TRON II - If you liked the original Tron then don't miss this update. Faster and improved presentation.
G061 - ESCAPE - The aim of this excellent game is to run over tiles pushing specific ones down to open gates. You must get to the exit within a certain time to progress.
G062 - DR MARIO - Very simular to the Nintendo versions of a simular named game but better graphics.
G063 - ASSAULT - This average game involves you shooting all the characters that pop up in the windows. Well presented but lacking playability.
G064 - DEATH BINGERS IN SPACE - A Xenon style shoot em up which are very common in PD.

UTILITIES

U012 - CATALOGUE MAKER - Lots of useful utilities that can be used for addresses, your video library or disk library etc. Includes listmaker V4.2 (2 disks)
U013 - BUSINESS CARD MAKER - A utility that can give really good results for use with any printer.
U021 - SYSTEM X - A telephone directory on disk. It even dials the number!!!
U041 - SLIDESHOW MAKER - One of the best IFF viewers available with lots of special effects.
U060 - A-GENE (FAMILY TREE) - An aid to trace your family history.
U104 - PICTURE FORMAT CONVERTERS - Swap file types for use on different machines or in different programs.
U114 - BOOTBLOCK UTILITIES - Loads of programs for use on the bootblock of disks. Can cause incompatibility problems.
U136 - 600 BUSINESS LETTERS - Over 600 letters of a basic format ready for quick and simple modification in any wordprocessor.
U139 - PRINTER DRIVERS DISK - An excellent selection of drivers to get your printer working perfectly.
U140 - LABEL MAKER - Excellent utility allowing you to make your own disk labels. We have added several fonts to give you more options.
U148 - CROSSWORD - Allows you to easily create crosswords.
U153 - MULTIPLAYER - Can play virtually any type of music module.
U167 - WINDOWBENCH - A replacement for Workbench V1.3 in the style of Microsoft Windows.
U168 - GAME TAMER V2.2 - Loads of cheats (over 250) for use in many top games.
U176 - UNDERSTANDING AMOS - A very useful learning aid.
U177 - 175 UTILITIES - That is not a miss-print. The most ever on a single disk.
U178 - AGRAPH - Create all kinds of pie charts, bar charts and line graphs.
U179 - CLI TUTOR - Loads of hints and tips with this tutor given 75% by a major magazine.
U180 - DISK OPTIMISER - Speeds up loading time by upto 15 times. Received a magazine rating of 93%.
U181 - FORMS REALLY UNLIMITED - Create all your own invoices and over forms with this neat utility.
U183 - MAGNUM - Create your own disk based magazine.
U184 - EDWORD - Excellent text editor.
U185 - POOLS PREDICTION - If you need more help (or money) try this disk.
U186 - VMORPH V2.0 - Excellent utility that will let you to create smooth morphs/warps between two different images over a period of frames to create an animation. Requires 1MB.
U187 - THE MENU DISK - If your into creating your own compilations etc. this disk is perfect for added presentation. Three programs + Setkey.

UTILITIES

U188 - CLUB LEAGUE - A utility that allows you to edit and keep track of divisions and league status.
U189 - SCREEN BLANKERS - A disk packed with screen blankers.
U190 - THE LITTLE OFFICE - One of the best business disks at present. Very popular.
U191 - VOICE CLI V5.5 - This utility allows you to control cli with speech
U192 - ACCOUNT MASTER - Written in Amos this is a very popular business utility of excellent quality.
U174 - ONLINE V1.4 - Allows you to find cheats in top games.
U193 - SOFTWARE LISTER V1.6 - This program is designed to keep track of your software collection.
U194 - DISKPRINT V3.51 - An integrated database and disk label printing utility.
U195 - RACE V1.6 - A utility that will work out the chance of a certain horse winning.
U196 - DRAW MAP V4.1 - There are two versions, please state or . It allows you to create 2D or 3D maps.
U197 - FOOTBALL LEAGUE EDITOR V1.1 - As soon as the results come in, you can monitor your teams latest position.
U198 - GOLF SCORES V1.84 - It can record the results of every round you play, store them and give you an overall electronic score.
U199 - ANTI-FLICKER - An aid to stop the flicker in Hi-Res mode during some programs operations.
U200 - AMICASH BANKIN - If you have a small business this utility is the best of its nature available on the Amiga and highly recommended.
U201 - PUNT PROGRAM - Another prediction aid for the horses
U202 - MONEY MANAGEMENT - Home accounts package capable of handling upto 12 different accounts.
U203 - EASY CALC V1.0 - This spreadsheet is designed to be both very user-friendly and fast. It has an excellent built in help system.
U204 - KEYBOARD TRAINER V1.1 - Best public domain typing tutor.
U205 - M-CAD - Computer aided design program.
U206 - NOERRORS - Hides the hard errors on disks making all the useless disks usable.
U207 - TEXT ENGINE V4.0 - The best public domain wordprocessor ever has now been improved. It has a 36,000 word spell checker.

VIDEO ART

U026 - TV GRAFFIX - Loads of backdrops etc. for use with a genlock or in any other artwork. (2 Disks)
U169 - HARLEQUIN VIDEO ART 1 - Excellent collection of backdrops of superb quality for use with genlock.
U171 - HARLEQUIN FONTS 1 - Loads of excellent Hi-Res fonts.
U172 - HARLEQUIN FONTS 2 - More of the above.

EDUCATION

E001 - TOTAL CONCEPTS DINOSAURS - Book on disk, appropriate for sensational Jurassic Park movie. Get it!!!
E002 - SCIENCE - Excellent learning aid. (4 disks)
E003 - FRACTIONS AND SILHOUETTES - Good maths utility.
E004 - WORLD WAR 2 - Good history aid.
E006 - WORLD GEOGRAPHY - Very useful disk.
E007 - KIDS DISK 1 - Excellent reading utility.
E008 - LEARN AND PLAY 1 - For younger amiga users, very popular.
E009 - LEARN AND PLAY 2 - See above, usually ordered as a set of two disks.
E010 - GCSE MATHS - Good, written by a teacher of the subject.
E011 - LANGUAGE TUTOR - French, Spanish, German and Italian. Good.

DEMOS

D004 - ARSEWIPE - Hillarious toilet role commercial.
D007 - FILLIT THE FISH - Cartoon animation.
D019 - SIMPSONS SLIDESHOW - Pictures of the Simpson family and friends.
D023 - PUGGS IN SPACE - Another cartoon animation from the same person who braught you Fillit the fish.
D025 - SAM FOX - Slideshow.
D035 - RUDE NOISES - Hillarious samples.
D036 - FAST CARS - Pictures of the worlds most exotic cars.
D074 - MADDONNA LIKE A VIRGIN - Music put to naked slideshow of Maddonna.
D091 - SAFE SEX DEMO - Hillarious mixed samples.
D114 - NEIGHBOURS SLIDESHOW - Very old, but still amusing pictures of the cast with drawn on special effects.
D121 - GIRLS ON FILM - Digitised animation.
D129 - SHOWERING GIRLS - Colour digitised slideshow.
D138 - WAR SIMULATER - Samples that good get you a day off school or work. Sounds ef sickness and war. Try it down the phone.
D190 - VISIT MERSYSIDE - For all Liverpudions.

MUSIC

MD01 - MUSIC MODULES - A massive 10 disk collection of good quality music modules. All of soundtracker file type for use with RSI Demo maker, Noiseplayer and many other applications.

SPECIAL OFFER £ 7.50 + P&P

A1200/A4000 ONLY

A019 - WEIRD SCIENCE - Super HAM8 pictures for all AGA machines.
A020 - WEIRD SCIENCE - Another AGA excellent quality slideshow. More available A19 to A29.
A036 - NIGHTBREAD PICS - AGA pictures. Good quality. (2 disks)
G042 - AGA TETRIS - Controlled by the cursor keys, this classic and probably most addictive game is now available with 256 colour graphics. Get it!!!
D181 - TEAM HOI PLANNER GROOVE - The worlds first ever AGA demo.
U165 - ACTION REPLAY VIV - A sort of freezer cartridge on disk.
U123 - WORKBENCH HACKS - Many useless but good to muck around with special effects for Workbench V3.0
U118 - MORE WORKBENCH HACKS - Guess what?

PHONE FOR LATEST PD

ALL OUR DISKS ARE VIRUS FREE

DCOPY 3

U176 - DCOPY 3 - One of the few disk backup programs that works with AGA chipset Amiga's. Very fast and powerful. Simply the best PD copier on the market at the moment. Also included on U001 - The Ultimate Backup Disk.

CATALOGUE ONLY £1

GAME BUNDLES

BEAT THIS FOR VALUE!!!
35 TOP PD GAMES COMPATIBLE WITH ALL AMIGA'S. ALL VERY ADDICTIVE AND OF A COMMERCIAL STANDARD.
ONLY £12
INCLUSIVE P&P IN UK ONLY

DPAINT TUTOR

U175 - DPAINT TUTOR - Also known as Gaters Graphic Gallery, this excellent utility gives tips on how to improve your DPaint art. Lots of examples to follow including some excellent logo's. This disk will have you producing professional results in less than a hour.

DISKSTART V1.3

K001 - DISKSTART V1.3 - Excellent utility that should solve all incompatibility problems with Workbench V1.3 software for A500+/A600 /A1200/A4000 owners.

VIRUS KILLER

V001 - SUPERKILLERS - Highly recommended. This disk could save you £££'s. With no virus protection you are putting your entire software collection at risk, especially if you receive disks from your friends etc. Regular updates to keep in touch with all virus activity.
All our disks are virus free.

CLIP ART

SEND £1 FOR A PRINTED SAMPLE SHEET

U001- ULTIMATE BACKUP DISK - Backup games more effectively than using workbench. This disk contains several fast backup utils.

DISK PRICES

SINGLE DISK £1.65 INCLUSIVE OF P&P
2 - 15 DISKS ONLY £1.25 EACH
16 - 25 DISKS ONLY £1.00 EACH
26 + DISKS ONLY £0.89 EACH

POSTAGE & PACKING

UK £0.80 PER ORDER
* P&P FREE ON SINGLE DISK @ £1.65 IN UK ONLY *
EUROPE +25p PER DISK
WORLD +45p PER DISK

NEW EQUIPMENT SALES
QUALITY REPAIRS

ACS Electronics is an established centre for AMIGA equipment. We specialise in the repair, maintenance and supply of computer hardware. Dedicated to a programme of quality customer care, our established position in the industry enables us to offer you, our customer, a service that we believe to be second to none.

NEW HARDWARE SALES

Amiga	A500+		£184.99
A600	1Mb	Alone	£299.99
A600	1Mb	20Mb	£329.99
A600	1Mb	40Mb	£429.99
A600	1Mb	85Mb	£364.99
A1200	2Mb	Alone	£495.00
A1200	2Mb	20Mb	£529.00
A1200	2Mb	60Mb	£639.00
A1200	2Mb	80Mb	£589.00
A1200	2Mb	120Mb	£729.00
A3000	1Mb	VID/1Mb FAST/52 Mb	£999.00
A3000	1Mb	VID/1Mb FAST/120 Mb	£1149.00

A3000	2MB	VID/4MB FAST/52MB	£1149.00
A3000	2MB	VID/4MB FAST/120MB	£1299.00
AMIGA 4000/30-/40			£P.O.A
CALL FOR SPECIAL AMIGA PACK PRICES			
COMMODORE CDTV			£349.00
A600 CONTROL CENTRE			£P.O.A

MONITORS/PRINTERS/PERIPHERALS/CHIPS !
CALL FOR BEST PRICES, REVIEWED WEEKLY.
PRICES INCLUDE V.A.T.
CARRIAGE FREE TO UK MAINLAND.

REPAIR SERVICE

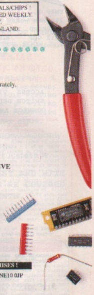
FAST EFFICIENT SERVICE
most repairs are carried out within ONE DAY
QUOTATIONS RATHER THAN FIXED PRICES
fairer to you, and in practice faster to process. Each repair is quoted separately,
no fixed charges full of exclusions, or hidden extras.
REPAIRS FROM £23
FREE CARRIER SERVICE with insurance
FREE 90 day warranty. FREE soak test.
No hidden charges.
FREE diagnostic inspection, FREE software.
OPTIONAL EXTENDED WARRANTY
at competitive rates.
Experienced and qualified engineering and support staff.
5% DISCOUNT
available to students and OAP's.
UNBELIEVABLE UPGRADE FITTED PRICE OF £15 INCLUSIVE
Trade and Education welcome. Dealer pack available on request.

Credit facilities available soon for hardware purchases (subject to status)

Access

VISA

ACS
ELECTRONICS



WE HAVE MOVED ! TO BIGGER AND MORE ADVANCED PREMISES !

ACS DESIGN WORKS, WILLIAM STREET, FELLING, GATESHEAD NE10 0JP
TEL: (091) 495 0300 (10 Lines) FAX: (091) 4950440

C&S COMPUTERS 37 PARK ROAD,
ST MARYCHURCH, TORQUAY,
DEVON
TQ1 4QR
TEL: 0803 329190

C + S
COMPUTERS

CHEQUES + P/ ORDERPAYABLE
TO
C+S COMPUTERS, PLEASE.

POSTAGE INCLUDED ON ALL ITEMS
EXCEPT MYSTERY PACKS + DISKS

TRIPLE PACK 1 (DEUTEROS, BATTLE VALLEY, HAMMER BOY) £12.99
TRIPLE PACK 2 (HUNTER, SECONDS OUT, LANCASTER)....................£12.99
TRIPLE PACK 3 (TITUS THE FOX, TARGHAN, G/BUSTERS 2) £12.99
TRIPLE PACK 4 (BLUES BROS, SATA, MAYA) £12.99
TRIPLE PACK 5 (CRAZY CARS 3, GRAND PRIX, BATTLETECH)..........£12.99

USED DISKS - INCLUDING LABELS
1 - 99 ....36p OVER 99 ....34p!
All disks guaranteed
NEW DISKS - INCLUDING LABELS
1 - 99 ....35p OVER 99 ....33p!

COMPILATIONS
Linekar Collection £7.99
Sports Pack 8.99
Hotshot, 5th Gear, windsurf, Willy, Karting Grand Prix
Star Pack 8.99
Quadralien, Eye of Horus, Starray, Stargoose
Speed Pack 8.99
Chicago 90, Highway Patrol 2, Jump Jet, Phantasm
Turbo Pack 8.99
Iron Trackers, Dark Fusion, Turbo Trax, Steel
Mad Pack...8.99
Thai Boxing, Mad Show, Electronic Pool, Fighter Mission
Soccer Mania 12.99
Football Mgr 2, Football Mgr World Cup Ed, Microprose soccer, Gazza's Soccer
Test Drive 10.99
The Duel, The Duel Extras Disk, Muscle Cars

Premiere	**9.99**	**Premier Manager**	**13.99**	**Vortex**	**6.99**
Putty	**11.99**	**Silent Service 2**	**12.99**	**Viz**	**6.99**
Jaguar XJ220	**11.99**	**Worlds at War**	**8.99**	**Apprentice**	**5.99**
Sensible Soccer 92/93	**14.99**	**Maya**	**6.99**	**Khallan**	**5.99**
Grand Prix Unlimited	**11.99**	**Battletech**	**6.99**	**The executioner**	**7.99**
Ashes of Empire	**11.99**	**Windsurf Willy**	**6.99**	**Pacland**	**6.50**
Cover Girl Poker	**10.99**	**R-Type 2**	**6.99**	**Predator 2**	**6.99**
Deluxe Strip Poker 2	**10.99**	**Pursuit to Earth**	**6.99**	**Cougar Force**	**5.99**
Centerfold Squares	**6.99**	**Lancaster**	**6.99**	**Night Hunter**	**5.99**
Ultima 5	**9.99**	**The Kristal**	**8.99**	**Spell Bound**	**5.99**
Carl Lewis Challenge	**11.99**	**F/Ball Mgr + Exp Kit**	**8.99**	**TV Sports Boxing**	**7.99**
White Death Wargaming	**9.99**	**F/Ball Mgr World Cup**	**8.99**	**TV Sports Football**	**7.99**
Sun Crossword	**8.99**	**Puzznic**	**5.99**	**AMC**	**5.99**
Times Crossword	**8.99**	**Warlock the Avenger**	**6.99**	**Fed of Free Traders**	**5.99**
GFL Baseball	**6.99**	**King Of Chicago**	**5.99**	**Warp**	**5.99**
GFL Golf	**6.99**	**Disc**	**5.99**	**Pool of Darkness**	**8.99**
Daily Double Horse Racing	**6.99**	**Spot**	**5.99**	**Secret of Silver Blade**	**8.99**
BlitzKrieg	**9.99**	**Socerers Apprentice**	**5.99**	**Ancient Games**	**4.99**
Sporting Triangles	**6.99**	**Galaxy Force**	**5.99**	**Dark Fusion**	**4.99**
Lotus Turbo 3	**12.99**	**Crime Wave**	**6.99**	**Xenon**	**3.99**

SPECIAL C&S COMPUTERS MYSTERY PACKS!!!
Each pack contains seperate boxed games and are a clearout of our back catalogue titles. There are over 300 different titles. We cannot check for compatability.
Pack 1 contains 5 boxed games for only £12.99
Pack 2 contains 10 boxed games for only £19.99
Pack 3 contains 15 boxed games for only £24.99
Pack 4 contains 20 boxed games for only £29.99
If you buy more than 1pack, we will make sure that there are no double titles.
Some of the games that may be in the packs are games such as Bombuzal, Formula 1, Dark Fusion, Cricket, Space Battle, Galazy Force, Las Vegas, Dugger, Battleships, Fruit machine, TV Sports Football, xenon, Austerlitz, Zork, Rocket Ranger and over 300 others please add £3.50 for postage.

Postage on disks
1 to 49..........£2.00
50 to 100......£3.50
Over 100......£4.50
Games 50p

For our full catalogue of games, disk boxes, hardware & joysticks etc please send £1.00 to the above address (refunded with 1st order) & SAE. All items are subject to change & availability E&OE.

OPEN SUNDAY 10-3PM

TRILOGIC

City centre
Odsal Top
Railway Bridges
New Wks Rd
A638 Bradford
M606
M62 Hull
A58 Leeds
We are here.
Est 1984
A641 Huddersfield
A58 Halifax
26
M62 Manchstr

ALL PRICES INCLUDE VAT

CALLERS WELCOME - OPEN 7 DAYS.

Open Mon Fri 8am-6pm, Sat 8am - 4pm OPEN SUN 10-3pm
We're easy to find, just 1.5miles from the M62. Easy parking. Leave M62 at junction 26, take A638 to Bradford, uphill, after about 1.5 miles, past the park & just over a railway bridge, turn left onto New Works Rd. We're on the left 400yds further on opposite a PO mail box.
Please note to avoid disappointment: Our technical & customer services personnel are not available to answer your queries or assist with any problems on Sundays.

SALES: 0274 691115

UNIT 1,
253 NEW WORKS RD,
BRADFORD, UK,
BD12 0QP Est 1984
FAX 0274 600150

SALES
0274 69 11 15
OPEN EVERY DAY

ACCESS VISA
SWITCH DELTA
CONNECT AMEX*

FAST PROFESSIONAL MAILORDER SERVICE.
SAMEDAY DESPATCH*

1) Order by phone using your credit, charge, or debit card.
2) Order by Mail - sending cheque bankers draft or postal orders payable to TRILOGIC.
3) Please add part postage & packing of £1.00 to small orders under £100 or £2.00 to small orders over £100. Large/heavy or fragile items sent by overnight carrier only +£5.50. Overnight carrier - any order +£5.50 Uk Mainland only. Scottish Highlands £7.50; N.IRELAND. +£10.00; EIRE +£20
UK Saturday delivery - add £12.00 (Not available to Scottish Highlands Goods remain our property until paid for in full.

*AMEX SUBJECT TO 2% SURCHARGE
*Subject to goods being in stock.

MICE & JOYSTICKS

ULTIMATE PRO ANALOGUE JOYSTICK NOW £19.99
Superb low cost smooth action Analogue joystick with fire button on the end, plus presttable X & Y trimmers, Microswitch fire buttons; autofire (not all games support autofire) Ideal for flight simulators etc (Not all games support analogue joysticks)

MOUSE / JOYSTICK PORT SWITCH £12.99
- Has sockets for mouse & joystick.
- Push button selects mouse or joystick.
- Uses no power unlike other types.
- Saves wear & tear on mouse port.

AMIGA TRACKBALL	£34.99
LEGEND BALL -POSH TRACKBALL	£34.99
CRYSTAL TRACKBALL	£34.99
MEGA MOUSE	£15.99
BUDGET REPLACEMENT MOUSE	£15.99
OPTICAL MOUSE	£37.99
PYTHON MICROSWITCH JOYSTICK	£9.99
TOPSTAR JOYSTICK	£19.99
HYPERSTAR JOYSTICK	£15.99
MEGASTAR JOYSTICK	£21.99
SUPERSTAR JOYSTICK	£13.99
ZIPSTICK AUTOFIRE	£12.99
SPEEDKING AUTOFIRE	£11.99
SPEEDKING ANALOGUE	£14.99
NAVIGATOR JOYSTICK	£13.99
TURBO TOUCH 360 JOY PAD	£14.99
BUDGET PC JOYSTICK	£14.99
FX 2000 PC JOYSTICK	£29.99
WARRIOR PC JOYSTICK	£19.99
TAC 2 AMIGA JOYSTICK	£9.99
MOUSE MAT	£3.99
MOUSE HOLDER	£1.99
JOYSTICK EXTENSION LEAD (3m)	£7.99pr
2 PLAYER ADAPTORS	£9.99
PC ANALOG JOYSTICK CONVERTER	£7.99

Use PC analogue joystick on Amiga.

DISKS & BOXES

3.5" LOCKABLE DISK BOXES ETC.

HOLDS 40/50 DISKS HINGED LID	£6.99
HOLDS 80 DISKS HINGED LID	£7.99
HOLDS 100 DISKS HINGED LID	£8.99
HANDY 20 SIZE FLIP TOP BOX	£1.99
3.5" DRIVE HEAD CLEANER	£3.99

TOP QUALITY BLANK DS/DD 3.5" DISKS
(DYSAN) IN BOXES OF 10 WITH LABELS.

1 PACK OF 10 IN STORAGE BOX	£6.99
2 PACKS OF 10 IN STORAGE BOX	£11.99
5 PACKS OF 10 IN STORAGE BOX	£29.99
10 PACKS OF 10 IN STORAGE BOX	£54.99
1PK OF 10 DS/HD 3.5" DISKS	£11.99
ROLL OF 1000 DISK LABELS	£12.99

DUST COVERS

'SEAL n TYPE' TYPE THRU KEYBOARD SKIN.
Don't risk spillages - they're guarenteed to 'write off' your Amiga. *Waterproof & moulded to fit snugly over each key, but flexible enough to type thru.*
AMIGA 500, 500+,600, 1200, 1500/2000 State which when ordering .. £12.99

ANTISTATIC DUST COVERS

AMIGA 500 & 500 Plus	£4.99
AMIGA 600/600HD/1200	£4.99
AMIGA 1500/2000 2PIECE	£12.99
AMIGA 1500/2000 KEYBOARD	£3.99
8833 /1084 MONITOR	£6.99
SWIFT 9, LC200 PRINTER	£6.99
SWIFT 24/LC24-200	£6.99
CBM1960/CISBSCAN 14"	£7.99

DESKTOP VIDEO DEPT

GVP GENLOCK	**£294.99**	Composite or S-video inputs & outputs; Keyer capability; Built-in RGB splitter for use with video Digitisers; audio input switching Software & Arexx controlled
ROCGEN PLUS	**£139.99**	A superb value Amiga Genlock with overlay & fader controls.
ROCGEN	£99.99	
ROC KEY	**£269.99**	Chroma keying unit - the ideal partner for the RocGen Plus - adds that professional touch.

EPSON COLOUR SCANNERS - GT6000,65000,80000 - low prices

VIDI 12	£ 84.99	REMARKABLY GOOD FRAMEGRABBER & RGB SPLITTER
VIDI 12s&v	£164.99	VIDI 12 + MEGAMIX SOUND SAMPLER & TAKE 2
SUPERPIC	£499.99	HI QUALITY COLOUR FRAME GRABBER WITH GENLOCK
COLOURPIC	£399.99	COLOUR FRAME GRABBER & DIGITISER
RENDALE 8802s	£493.99	SVHS GENLOCK
RENDALE 8802FMC	£179.99	8802 GENLOCK with faders + key modes
RENDALE 8802	£134.99	BUDGET GENLOCK
GVP IV 24 from	£989.99	24BIT GRAPHICS SYSTEM FOR A1500 & 2000

COMPUTER MUSIC DEPT

'MIRACLE' KEYBOARD
ONLY £249.99
SAVE £50.00

" Teaches you how to play"
Includes 4 octave FULL SIZE touch sensitive Keyboard, with Midi interface built-in. + 100 Instrument sounds & effects. + Artificial intelligence software for the Amiga which customises the lessons to each individual.

SUPERFI 2 STEREO SYSTEM HI FI QUALITY for only £54.99

A VERY HIGH QUALITY, 20 WATT STEREO BOOKSHELF SPEAKER SYSTEM.
Not a cheap 'gimmicky' toy . Perfect for use with most Computers, inc PC sound cards, keyboards, Stereo VCRs, Satellite Systems & Walkmans. Built-in mains supply - no external adaptors req'd.
- BASS CONTROL
- TREBLE CONTROL
- VOLUME CONTROL
- 32-20K RESPONSE
- PHONO INPUT SKTS
- CONNECTING LEAD

PRO MIDI INTERFACE ONLY £27.99

Midi leads 1.2m - £1.99 3m - £2.99

VERSATILE 5 PORT DESIGN
Our unique 5 port Midi interface has In, Out &Thru sockets plus two additional switchable Out or Thru sockets for ingenious versatility. ***So you can have 1 in, 1 out & 3 thru, or 1 in, 1 thru & 3 out, or 1in, 2 outs & 2 thru !***
Fully compatible with all Amiga Midi software, & most keyboards.

TRILOGIC STEREO SAMPLER 2 ONLY £34.99

THE MOST ADVANCED 8BIT AMIGA SAMPLER THERE IS.
Our Superb sounding STEREO SAMPLER 2 uses an expensive state of the art A/D chip which samples so fast, it **captures every detail** of the sound. Easily adjusted level control, connecting lead supplied. Fully compatible with all popular sampling software.
FREE STEREO SAMPLING SOFTWARE

SPARES AND MISC ITEMS

ROM SWITCH ONLY £27.99

ROM SWITCH & 1.3 ROM only £57.99
ROM SWITCH & 2.04 ROM £64.99

Our Keyboard operated Two way Rom switch enables you to use either of 2 Workbench roms. To switch over, just hold down Control/Amiga/Amiga keys until you hear a bleep. (Release them before the bleep to 'warm start' with the current rom. Fits A500/500+/1500/2000. Fitting invalidates computer warranty unless fitted by us. Fitting charge £15.00 Please state which you have Amiga when ordering.

AMIGA PRINTER PORT EXPANDERS

2way - £27.99 inc cable
3way - £30.99 inc cable
4way - £33.99 inc cable

FOR USE WITH PRINTERS, SAMPLERS, VIDEO DIGITISERS ETC
These compact fully Switched Expansion boxes enable you to connect upto four peripherals to your computer. The connectors on the units are the same type as the Computer's printer connector so your periperals just plug straight in. A connecting lead worth £10.99 - 2m for use with printers only, or 300mm long if used with Digitisers, scanners & samplers (state which req'd) is supplied free, to link the Expander to the computer. All 25 connections are switched. 36 way Printer sharers are also available - share one printer with 2 or more computers - phone for prices.

TWO WAY SCART SWITCH £19.99

VGA MONITOR SWITCH 2WAY £29.99
VGA MONITOR SWITCH 4WAY £34.99

This compact switch box converts most Tvs & Tv monitors to DUAL SCART INPUT. Thus you can connect your Amiga & your VCR to the one scart socket on your Tv. A push button switch selects input one or input two - ie VCR or computer. RGB, Audio & Video inputs are switched.
4WAY SCART SWITCH £39.99

SPARES SPARES SPARES

TV MODULATOR (exchange)	£19.99
TV MODULATOR no exchange	£29.99
FATTER AGNUS 8372A	£39.99
KICKSTART 1.3 ROM	£31.99
KICKSTART 2.04 ROM	£39.99
SUPER DENISE	£39.99
GARY	£39.99
8520A I/O CHIP	£15.99
A500+ MOTHERBOARD complete	£99.99
A500 MOTHERBOARD- no socketed chips or ram chips	£29.99
CBM MOUSE	£14.99
A500 CASE	£19.99
A500 KEYBOARD	£59.99
AMIGA INTERNAL DRIVE	£59.99
MAINS SUPPRESSOR BLOCK 4WAY	£12.99
UPRATED A500 POWER PACK	£44.99
CBM A500 PSU	£37.99
GVP GENUINE PSU	£69.95
EXTERNAL DISK DRIVE PSU	£29.99

1901 MONITOR CONVERSIONS £69.99
We can convert your 1901 monitor to work on thge Amiga. Lead included. Please phone for details.

AMIGA SERVICE DEPT

AMIGA 500 REPAIR £49.99
Includes parts & labour, excludes psu, disk drive & keyboard faults. FAST TURNAROUND

A520 MODULATOR REPAIR	£19.99	NEW
REPLACE INTERNAL DRIVE	£69.99	inc drive
A500 PSU REPAIR*	£29.99	
FIT HARD DRIVE TO 600/1200	*£15.00**	

*(NO charge if fitted at time of purchase.) Add £10 for sameday turnaround (by prior arrangement only). *where spare parts available.*
Call in or send by Insured post enclosing return carriage - see 'How to Order' for carriage charges.

Used Amigas from £100.

SERVICES SERVICES SERVICES

COLOUR PRINTING (300 DPI) A4 SIZE
FULL COLOUR PHOTOCOPYING upto A3 from only 20p per copy.
COLOUR PRINTING ON TEE SHIRTS POA

OFFICIAL ORDERS FROM GOVERNMENT & EDUCATIONAL ESTABLISHMENTS WELCOME.

E&OE. Please phone if in doubt. (C) TRILOGIC 1993 All rights reserved.

DISCOUNT AMIGA SOFTWARE

BACKUP UTILITIES

X COPY PRO NEW £34.99
Latest version - complete with NEW Mk 2 Automatic Cyclone external drive adaptor. Highly successful.

Mk1 CYCLONE ADAPTOR £12.99

NB. Making backups without the permission of the copyright holder is illegal.

EDUCATIONAL

MANY TITLES REDUCED

ADI ENGLISH; MATHS; FRENCH	£18.99
ADI JUNIOR RANGE	£14.99
BETTER MATHS (12-16)	£17.99
BETTER SPELLING (8+)	£17.99
DATAWORD	£14.99
DISTANT SUNS V4.1	£52.99
FUN SCHOOL4 RANGE	£17.99
FUN SCHOOL SPECIALS	£18.99
FRENCH MISTRESS	£15.99
GERMAN MASTER	£15.99
ITALIAN TUTOR	£15.99
JUNIOR TYPIST (5-12)	£17.99
KIDS ACADEMY RANGE - ALL	£14.99
LINKWORD ANGUAGES	£21.99
MICRO RANGE ALL	£18.99
MEGA MATHS	£18.99
NODDY'S PLAYTIME	£18.99
PLAYDAYS	£18.99
READING WRITING COURSE	£18.99
SPANISH TUTOR	£15.99
VOYAGER 1.1	£54.99

BOOKS & VIDEOS

BRUCE SMITH BOOKS

MASTERING AMIGA AREXX	£21.95
MASTERING AMIGA DOS 2 VOL 1	£21.95
MASTERING AMIGA DOS 2 VOL 2	£19.95
MASTERING WORKBENCH 2	£19.95
MASTERING AMIGA C	£19.95
MASTERING AMIGA PRINTERS	£19.95
MASTERING AMIGA ASSEMBLER	£24.95
MASTERING AMIGA SYSTEM	£29.95
MASTERING AMIGA AMOS	£19.95
MASTERING AMIGA - BEGINNERS	£19.95
A600 INSIDER GUIDE	£14.95
A1200 INSIDER GUIDE	£14.95

* DISK INCLUDED FREE WITH THESE

AMIGA BASIC INSIDE & OUT	£21.99
AMIGA GRAPHICS	£21.99
C FOR BEGINNERS	£17.95
DESKTOP VIDEO	£18.95*
GRAPHICS INSIDE & OUT	£31.95
MAKING MUSIC ON THE AMIGA	£27.99*
BEST OF AMIGA TRICKS N TIPS	£15.00*

(*=SPECIAL PRICE TO CLEAR)

VIDEOS

DELUXE PAINT 4 VIDEO	£14.99
ADVANCED DELUXE PAINT 4	£14.99

BOOK SALE.(Mostly Basic books)

ELEMENTARY AMIGA BASIC	£5.00
INSIDE AMIGA GRAPHICS	£5.00
1ST BOOK OF THE AMIGA	£5.00
2ND BOOK OF THE AMIGA	£5.00

ALL TOP AMIGA MAGAZINES STOCKED

TOP 50 GAMES

A320 AIRBUS	£26.99
AIRBUS A320 N.AMERICA	£27.99
A TRAIN NEW	£26.99
ANCIENT ART OF WARS IN SKIES	£26.99
ABANDONED PLACES 2	£26.99
ARCHER MACLEANS POOL	£20.99
AIR SUPPORT	£20.99
ASSASIN	£20.99
BEAVERS	£20.99
BLADE OF DESTINY	£30.99
BIRDS OF PREY	£27.99
BODY BLOWS	£20.99
B17 FLYING FORTRESS	£26.99
CAMPAIGN	£27.99
CHAOS ENGINE	£20.99
CHAMPIONSHIP MANAGER 92/3	£20.99
CHESSMASTER 2100	£14.99
CHUCK ROCK 2	£20.99
CIVILISATION	£26.99
COLOSUSS BRIDGE	£20.99
CREATURES	£20.99
CRAZY CARS III	£20.99
COMBAT AIR PATROL NEW	£22.99
CURSE OF ENCHANTIA	£24.99
D DAY	£23.99
DARKSEED	£26.99
DESERT STRIKE NEW	£23.99
DUNE 2	£23.99
EPIC	£20.99
EYE OF BEHOLDER 2	£27.99
FLASHBACK	£23.99
FORMULA 1 GRAND PRIX	£26.99
F15 STRIKE EAGLE II	£26.99
FLIGHT COMMAND	£20.99
FLIGHT SIMULATOR 2	£29.99
FLT SIM 2 SCENERY DISK. EACH	£15.99
FLT SIM BRIT SCEN COLLCTN	£36.99
GRAHAM GOOCHS WORLD CRICKET	£23.99
GOAL	£23.99
GUNSHIP 2000	£26.99
GUY SPY	£23.99
HISTORY LINE	£26.99
HUMANS 2	£23.99
INDIANA JONES FATE OF ATLAN	£20.99
INDIANA JONES -ADVENTURE	£29.99
INTERNATL OPEN GOLF (A1200)	£20.99
JIMMY WHITE'S SNOOKER	£21.99
KNIGHTS OF THE SKY	£26.99
LEGEND OF KYRANDIA	£25.99
LEGENDS OF VALOUR	£30.99
LEMMINGS 2	£23.99
LINKS COURSES	£13.99
MONKEY ISLAND 2	£29.99
MORPH	£20.99
NICK FALDO'S CHAMPSHP GOLF	£26.99
NIGEL MANSELLS WORLD CHAMP	£23.99
PAPERBOY 2	£20.99
PGA TOUR GOLF +	£23.99
POPULOUS 2 PLUS	£26.99

ADORAGE	£67.99
ADVANTAGE REDUCED	£59.99
AMI BACK	£42.99
AMI SUPERCARD II	£34.99
AMOS	£34.99
AMOS - EASY	£25.99
AMOS 3D	£23.99
AMOS COMPILER	£21.99
AMOS PROFESSIONAL - DOWN TO	£39.99
AMOS PRO COMPILER	£25.99
ART DEPT PRO AGA	£169.99
ART EXPRESSIONS NEW	£145.99
AUDIO ENGINEER 2 reduced.	£159.99
BARS AND PIPES PRO	£269.99
BRILLIANCE	£POA
BROADCAST TITLER 2	£169.99
BROADCAST TILTER SUPERHIRES	£299.99
CAN DO V2 NEW VERSION	£94.99
CROSS DOS V5	£39.99
DAY BY DAY	£22.99
DELUXE PAINT 4AGA	£74.99
DELUXE MUSIC 2	£54.99
DEVPAC 3	£51.99
DIRECTORY OPUS V4 ONLY	£49.99
DISK MASTER 2 REDUCED	£39.99
EASY AMOS	£24.99
ESSENCE	£56.99
EXCELLENCE 2 REDUCED	£57.99
FINAL COPY 2 NEW VERSION	£88.99
GB ROUTE PLUS - REDUCED	£35.99
GOLD DISK OFFICE 2	£61.99
HYPERCACHE	£37.99
HISOFT BASIC	£49.99
HOME ACCOUNTS 2	£41.99
IMAGINE 2 REDUCED	£164.99
IMAGEMASTER -	£129.99
KINDWORDS 3	£36.99
LATTICE/SAS C V6 REDUCED	£279.99
MACRO 68000 ASSEMBLER	£39.99
MEDIA SHOW REDUCED	£46.99
MEGAMIX MASTER	£36.99
MINI OFFICE BARGAIN	£42.99
MORPH PLUS £13 OFF	£142.99
ORGANISE	£46.99
PAGESETTER 3	£47.99
PAGESTREAM 3	POA
PENPAL STILL ONLY	£35.99
PERSONAL PAINT	£57.99
PERSONAL FINANCE MANG+	£39.99
PRODATA REDUCED	£69.99
PROFESSIONALPAGE 4	£179.99
QUARTERBACK 5	£41.99
QUARTERBACK TOOLS DELUXE	£114.99
QUARTET	£38.99
REAL 3D PROFESSIONAL V2	£399.99
SCALA	£77.99
SCALA PROFESSIONAL	£199.99
SCENERY ANIMATOR	£67.99
SOUNDMASTER - A GIFT AT	£49.99
STEREOMASTER SAMPLER	£29.99
SUPERJAM GIVEAWAY PRICE	£39.99
SUPERJAM 1.1	£89.99
SUPERBASE 4 budget version	£126.99
SUPERBASE 4 - FULL VERSION	£244.99
TECHNOSOUND TURBO 2	£41.99
TERRAFORM	£34.99
THE PATCHMEISTER	£67.99
THE PUBLISHER	£37.99
TURBOPRINT PRO V2 NOW ONLY	£37.99
VISIONARY	£37.99
VISTA PRO 3	£57.99
VIDEOMASTER REDUCED	£54.99
WORDWORTH 2 aga	£82.99
XCOPY PRO - LATEST VERSION	£34.99
XCAD 2000 PRICE DOWN	£99.99

SPECIAL OFFERS- LIMITED STOCKS

GFA BASIC	£9.99
MUSIC X 1.1	£24.99
SUPERJAM	£39.99
SOUNDMASTER SAMPLER	£49.99
SYNTHIA PRO	£99.99

ENHANCED 1200 GAMES

ZOOL 1200	£20.99
TROLLS	£20.99
WING COMMANDER	£26.99
SLEEPWALKER 1200.	£25.99
NIGEL MANSELL1200	£23.99
ROCBOCOO	£20.99

MORE AMIGA GAMES...

PREMIERE	£23.99
PREMIERE MANAGER	£20.99
PROJECT X	£20.99
RAMPART	£18.99
REACH FOR THE SKIES	£23.99
ROBOSPORT	£21.99
ROME AD'92	£23.99
SENSIBLE SOCCER 92/93	£18.99
SIM ANT	£25.99
SIM EARTH	£25.99
SIM LIFE	£26.99
SILENT SERVICE 2	£27.99
SCABBLE	£21.99
SHADOW OF THE BEAST III	£23.99
SPACE LEGENDS	£23.99
SPORTSMASTERS	£23.99
STREET FIGHTER II	£21.99
SLEEPWALKER	£25.99
STRIKER	£20.99
SHUTTLE	£22.99
SUPERFROG	£20.99
SYNDICATE	£27.99
SWORD OF HONOUR	£18.99
THE MANAGER	£18.99
TROODLERS	£18.99
VIKINGS	£25.99
WALKER	£23.99
WAR IN THE GULF	£23.99
WING COMMANDER	£26.99
WORLD SERIES CRICKET	£23.99
WWF 2	£20.99
ZOOL	£20.99
ZOOL 1200	£20.99

COMPILATIONS

COMBAT CLASSICS	£23.99
DREAM TEAM	£20.99
LEMMINGS TWIN PACK	£22.99
MEGA SPORTS	£18.99
QUEST & GLORY	£23.99
SIM CITY & POPULOUS	£21.99
SUPERFIGHTERS	£20.99

BUDGET AMIGA GAMES FROM £6.99

£4 OFF MOST MEGADRIVE GAMES

MEGADRIVE CD ROM £264.99
PC GAMES AT DISCOUNT PRICES

PRICES WERE CORRECT AS OF 29-07-93, but as our crystal ball is broken, some may have changed by the time you read this, due to currency fluctuations & manufacturers/ suppliers price increases. We do make mistakes from time to time too ! All registered Trademarks are acknowledged.Callers are most welcome but please phone first to check availability & avoid disappointment - we try to keep most items in stock unlike some of our competitors and will gladly put items aside for you to collect, but shortages of some items do occur from time to time.

AMIGA 1200 WITH HARD DRIVE FITTED

		WITH CUBSCAN MONITOR SAVE £24.
A1200+40MEG HD	£439.99	SPECIAL OFFER £849.99
A1200+80MEG HD	£499.99	£899.99
A1200+120MEG HD	£599.99	£999.99
A1200+210MEG HD	£699.99	£1099.99

ANY A1200 COMPLETE WITH BATTERY BACKED CLOCK - ADD £20.00

PRICES INCLUDE 2YR EXTENDED WARRANTY

AMIGA 1200 SUMMER PACK

Inc TROLLS & NIGEL MANSELLS GP £289.99. (1YR WARRANTY)

FIT A HARD DRIVE TO YOUR AMIGA 600 OR 1200- its EASY WITH OUR ILLUSTRATED GUIDE

HURRY - WORLDWIDE STOCKS OF SMALL DRIVES (<120MEG) EXHAUSTED SOON & PRICES WILL RISE.

40MEG only	£129.99
60MEG only	£174.99
80MEG only	£199.99
120MEG only	£299.99
210MEG only	£399.99

PRICE INCLUDES: READY FORMATTED & PARTITIONED 2.5" IDE DRIVE; DRIVE CABLE; FULL FITTING INSTRUCTIONS & FIXING SCREWS + LEGAL FORMATTING DISK & RECOVERY HINTS.

FITTED FREE while U wait if you take out an extended warranty at the same time. Otherwise £15.00 fitting charge.

MAILORDER COLLECTION, FITTING & DELIVERY SERVICE JUST £19.99

AMIGA 4000 RANGE

030/040 WITH 80MEG OR 120MEG HDs
PLEASE PHONE FOR LATEST PRICES & SPECS
VORTEX 486 PC CARD £649.99 with any 4000.
(Normally £699.99. 386 card also available)

AMIGA 600 'WILD, WEIRD WICKED' £219.99

AMIGA CD32 DUE IN SOON £289.99

AMIGA 500 CARTOON CLASSICS

- BUILT-IN 3.5" DISK DRIVE
- 1MEG RAM
- MOUSE
- TV MODULATOR
- WORKBENCH 2.04

PLUS

- LEMMINGS
- CAPTAIN PLANET
- THE SIMPSONS
- DELUXE PAINT 3

FEW ONLY AT £194.99

FIT A HARD DRIVE YOURSELF - IT'S EASY AND WITH OUR 2 OR 3 YEAR WARRANTY PLANS, YOU'RE COVERED FOR BOTH BREAKDOWNS & ACCIDENTS.

OUR Specially Negotiated LOW COST NO FUSS Warranties cover *BOTH* COMPUTER & DRIVE FROM ONLY £27.99

- * COMPUTER & DRIVE BOTH COVERED
- * ACCIDENTS AS WELL AS BREAKDOWNS COVERED
- * COVERED EVEN IF DRIVE FITTED BY PURCHASER.
- * COVERED EVEN IF COMPUTER NOT PURCHASED FROM US
- * VERY FEW EXCLUSIONS
- * UNDERWRITTEN BY A LEADING UK INSURANCE Co.

COMPUTERS UPTO £600 - £27.99 for 2yrs or £42.99 for 3yrs.
COMPUTERS UPTO £999 - £32.99 for 2yrs or £67.99 for 3yrs.

Not available for Business users- Exclusions:- theft; wilful damage; cosmetic damage - full written details on request. These are Return to Base warranties. Computer must be under 6 months old. Computer value used to calculate warranty cost must include cost of internal hard drive.

WHY NOT COVER YOUR AMIGA 500, 600, 1200STANDALONE OR 4000 - the prices above apply. Monitors & printers can also be covered -poa.

DON'T BE WITHOUT A WARRANTY......

Commodore have told us that their On-site warranty will not apply if the Warranty seals are broken by ANYONE including dealers.

PRINTERS

CITIZEN SWIFT 90 COLOUR £179.99
9pin; Upto 240cps in high speed draft & 54cps NLQ printing speed. 6 NLQ built-in fonts. Friction & tractor feeds. Paper park. Low cost ribbons. 2 year warranty. Epson FX850 & IBM Proprinter III emulations. Low noise level, + 'quiet mode'.

CITIZEN SWIFT 240 COLOUR £284.99
24 pin; 240cps draft & 80 cps letter quality print speed. 9 fonts, 2 scalable fonts. Paper parking, push & pull tractor feed, friction feed. Epson LQ570, NEC P20 & IBM emulations. Ultra low noise level, + quiet mode for even lower noise. 2 year warranty.
128K RAM EXPANSION £33.99

STARTER PACK only £4.99. COMPRISES 1.8M printer cable & Driver disk (Where available)

HP DESKJET 550 COLOUR £679.99
Superb hard to get 300DPI Colour inkjet for laser - like quality. A4 paper size; prints on OHP film & envelopes too.

HP DESKJET 510 £339.99
Superb low cost 300DPI inkjet for laser -like quality. A4 paper size; prints on OHP film & envelopes too.

CITIZEN SWIFT 200 £209.99 COLOUR MODEL £244.99
24 pin, Very similar to the 240, but slower & fewer fonts. Availablein mono or colour versions.
128K RAM EXPANSION £33.99

CITIZEN PROJET INKJET £399.99
300dpi Laser quality 50 nozzle INK jet printer. Fast & very quiet. 360cps draft & 240 cps letter quality print speed.Three letter quality fonts + optional font cards. HP Deskjet Plus emulation. Optional 128k & 256k ram cards. 100 sheet automatic feeder.
Ink cartridges £13.99

SEIKOSHA OP 104 LASER PRINTER £559.99
Four page per minute; HP Laserjet IIP emulation; 300x300 DPI; 1yr on site warranty.
Postscript version with 2meg ram £849.99

RICOH LP1200 LASER PRINTER £799.99
6 pages / minute; PCL5 with scalable fonts; upto 400dpi resolution (300 standard, 400 requires extra 2meg ram); 2meg ram as standard; straight paper path; resolution enhancement; flash rom for downloading new firmware; IC card slot for flash roms; serial & parallel ports; 1 yr on-site warranty.

PRINTER ACCESSORIES

AMIGA PRINTER CABLE 1.8m £9.99; 3m	£12.99
AMIGA PRINTER CABLE 5m £14.99; 10m	£19.99
25way M-M or M-F EXTNSION CABLE 2m	£10.99
UNIVERSAL PRINTER STANDS £5.99; &	£10.99
RIBBON REINKING SPRAY - BLACK	£11.99
SWIFT 1200/9/90/200/240 BLK RIBBON	£4.99
SWIFT 9/90/200/240 COLOUR RIBBONS	£15.99
PROJET INK CARTRIDGE	£13.99
INKJET REFILL SYRINGES BLCK, 2 FOR	£14.99
CONTINUOUS LABELS, 1000x1.5"X3.5"	£7.99
CONTINUOUS PAPER 60GRM 2000 SHEETS	£21.99
2WAY PRINTER SHARER	£29.99
3WAY PRINTER SHARER	£33.99
4WAY PRINTER SHARER	£34.99

For sharing one printer with several computers Fitted with 36way sockets- Prices include 2m 36way Printer to switch cable.

AMIGA 1200 UPGRADES

A1200 INTERNAL CLOCK MODULE - £22.99

Plus into internal socket (not fitted to all 1200s)- fitting invalidates warranty. BATTERY BACKED.

AMIGA 1200 FAST RAM CARDS

A1200 PCMCIA 2 MEG 16BIT FAST RAM	£149.99
A1200 PCMCIA C 4MEG 16BIT FAST RAM	£224.99

AMIGA 1200 32BIT 4MEG + CLOCK £179.99

GVP A1230 TURBO MEMORY BOARDS

Includes 68030 running at 40MHz; 68882 socket for FPU. Has two 32bit simms skts.

With no fpu & 0meg £244.99
WITH 4MEG & 68882 .... £479.99
WITH SCSI I/FACE .... POA

32BIT SIMMS FOR MBX / GVP / A4000 ETC. POA

AMIGA 500 HARD DRIVES

FURTHER REDUCTIONS ON SOME ITEMS

GVP HD8 FOR A500 & 500+ - NO DRIVE	£184.99
GVP SERIES II HD8+ 42 Meg for A500 - PRICE DOWN -	£244.99
GVP SERIES II HD8+ 80 Meg for A500 - PRICE DOWN -	£345.99
GVP SERIES II HD8+ 120meg for A500 - PRICE DOWN -	£389.99
GVP SERIES II HD8+ 210meg for A500 - now only	£575.99

The HD8 series II can accept either 1 or 2 or 4, 1 meg simms; OR two, 4 meg simms.

GVP SERIES II HC8 for A1500/2000 - NO DRIVE	£119.99
GVP SERIES II HC8 + 42meg for A1500/2000	£285.99
GVP SERIES II HC8 + 80meg for A1500/2000	£334.99
GVP SERIES II HC8 + 120meg for A1500/2000	£409.99
GVP SERIES II HC8 + 210meg for A1500/2000	£559.99

The HC 8 Series II can accept upto 8, 1meg x9 Simms in 2 meg steps.

GVP A530 COMBOS with 42Mb drive	£475.99
GVP A530 COMBOS with 80Mb drive	£575.99
GVP A530 COMBOS with 120Mb drive	£677.99

1MEG *9 SIMMS FOR GVP DRIVES
1MEG 32 BIT SIMM ....
4MEG x8 SIMMS FOR GVP DRIVES
4MEG 32BIT SIMMS FOR A530 ..

Please note, due to a shortage of memory chips & simms, prices are rising daily - please phone before ordering.

A590 & GVP SCSI DRIVE UPGRADES.
42MEG £139.99 EASY TO FIT

EMULATORS & ACCELERATORS

VORTEX AT ONCE PLUS 286 PC EMULATOR FOR A500	£99.99
GVP PC286 PC EMULATOR CARD FOR SERIES II HARD DRIVES	£99.99
GOLDEN GATE 386SX PC CARD FOR A1500/2000	£399.99
GOLDEN GATE 486SX PC CARD FOR A1500/2000	£699.99
OPTIONAL DRIVE CONTROLLER CHIP FOR GOLDEN GATE	£34.99
IIT 80387SX25 CO-PROCESSOR FOR GOLDEN GATE	£89.99
G-FORCE 030/25MHz FOR A1500/2000 others available	£479.99

COLOUR MONITORS

FULLY COMPATIBLE, WE BELIEVE, WITH ALL AMIGA1200 VIDEO MODES

CUBSCAN 14" MULTISYNC COLOUR MONITOR

THE BEST

- * Hi res dot pitch of 0.28mm.
- * Antiglare 14" hi-brightness screen.
- * Digital memory sizing - for *automatic* borderless display in all Amiga modes.
- * All controls at front.
- * SVGA compatible for PC use.
- * 15-40KHz horizontal scan rate.
- * 45-90Hz vertical scan rate.

NO BLACK BORDERS

NOW ONLY £439.99 INC AMIGA LEAD
OR £489.99 WITH SUPERFI 2 STEREO SYSTEM

PHILIPS CM8833mk2 ONLY £229.99

- 14" SCREEN
- STEREO SOUND
- RGB & COMPOSITE INPUTS
- ON SITE WARRANTY
- LOTUS TURBO CHALLENGE
- OFFICIAL UK MODEL
- CONNECTING LEAD FREE

COMMODORE 1084S £199.99

- 14" SCREEN
- STEREO SOUND
- RGB & CVBS INPUTS
- SUPERB PICTURE
- AMIGA LEAD FREE

COMMODORE 1942

14" DUOSYNC COLOUR MONITOR WITH STEREO SOUND £389.99
COMMODORE 1940 MONITOR £294.99

MONITOR LEADS & ACCESSORIES - LARGE RANGE AVAILABLE.

AL1 - MOST TVs WITH SCART SOCKET TO ALL AMIGAS inc sound lead	£13.99
AL7P CM8833/1084S MONITOR TO ALL AMIGAS inc sound lead	£14.99
AL11 9PIN MALE MULTISYNCS LEAD TO ALL AMIGAS	£12.99
AL12 15PIN FEMALE 3ROW Some mulisync monitors TO ALL AMIGAS	£14.99
AL13 15PIN MALE 3ROW Some multisync monitors TO ALL AMIGAS	£14.99
PRODUCTIVITY LEAD FOR MULTISYNC MONITORS	£19.99
MODULATOR EXTENSION LEAD - eliminates modulator overhang	£10.99
MODULATOR SPLITTER - CONNECT MODULATOR & MONITOR AT SAME TIME	£16.99
MONITOR SWIVEL BASE FOR 14" MONITORS & TVs £10.99 HEAVY DUTY	£12.99

MONITOR LEADS MADE TO ORDER - PLEASE PHONE FOR PRICE

A500 MEMORY UPGRADES

A500 / 500+ 1/2meg upgrade without clock	£POA
A500 / 500+ 1/2meg with clock & battery	£POA
A500+ 1MEG UPGRADE	£POA
AMIGA 600 1meg upgrade + clock - now only	£POA

EXTERNAL DISK DRIVES

ROCLITE RF382av 3.5" EXTERNAL DRIVE £64.99
WITH ANTIVIRUS & ANTI CLICK FEATURES. RRP £79.99
OR WITH NEW XCOPY PRO £94.99
CUMANA CAX354 £64.99

POA -Please phone for price

Genlock Jungle

Professional Video Producer, David Strelitz, tests two budget-priced Genlocks that enable you to combine computer graphics with video.

As video cameras become cheaper, more and more users are discovering that computers can enhance their home videos with spectacular titles and animated graphics.

And the Amiga is one of the best computers around for you to spice up your home videos as they have an established international reputation as value-for-money video tools. Everything from wedding videos to TV programmes can all been done on the Amiga.

The Amiga is so popular as a video tool because titles and graphics can be produced in thousands of colours and the range, size and style of fonts are endless. Artwork prepared on a paint package, such as *DeluxePaint* or customised clipart, can all be incorporated within a video.

If you want these brilliant effects for your home video productions, then all you need is a Genlock to mix the signals. Genlocks are either external units or internal cards and range in price from £50 – £2000. Some only allow software control from keyboard operation, others have processors and faders to allow colour control as well as fading of picture, graphics or both.

How a Genlock operates is that it will make one colour invisible to the incoming video source. This is the *key* colour. Once a video signal is fed through the Genlock, the key colour will be replaced by the video picture. Budget models normally key to the background colour (colour 0) while more expensive units key to both foreground and background colours.

There are many variations within the software packages available as to how they introduce graphics to the screen. Some programmes, such as Scala, have wipe patterns or variable scrolls. Computer graphics may be either titling, captions or artwork usually in IFF Page or Brush form. Many software-controlled fades are jerky and so the ability to fade graphics from the Genlock is a positive advantage.

Genlocks also offer smoother transitions as well as more flexibility over the switch-in, switch-out type units.

I tested two units from the budget end of the market which are aimed at the video user who wishes to add a more professional look to his work. Both units were from Lola Electronics and were UK designed and manufactured. Here's what I thought about them both.

MINIGEN L500

More than 15,000 of this budget-priced unit, costing £49.95, have been sold since 1989, which is an indication of its popularity. It is almost identical in size to the A520 RF modulator and has two phono sockets for composite Video In and Out.

A three-way switch on top enables the selection of graphics, video or mix. If no video signal is fed to the unit it defaults to local mode and acts as an RF modulator displaying the computer output. To display graphics, you have to toggle the selector switch between picture and mix. I found this annoying as I had to go to the back of the machine to operate it. But even more annoying was that once the Minigen L500 is in place there isn't any provision for the computer output to be displayed continuously.

Anyone with a RGB monitor will not be able to use them unless they are re-connected from the composite Video Out of the editing recorder, to the Video In of the monitor.

When the Minigen L500 is connected and a video source is sent, the computer picture is only available by selecting graphics with the toggle switch. A 23-pin extension cable is available as an optional extra (£14.95) enabling either the Minigen L500 or RF modulator to be positioned at the side of the computer.

Over 15,000 Minigens have been sold – it's a Genlock and under £50.

MINIGEN PROFESSIONAL

AUDIO IN
TV CH36
VIDEO OUT
PAL TV ADAPTER L520

This unit is housed in a black metal case 260mm x 180mm x 55mm and comes with a 23-pin connecting cable which links it with the Amiga RGB port. The RF modulator or monitor cable is replaced in the Genlock, re-establishing monitor output from the computer. The Genlock is powered from the Amiga via the connecting cable. No other power supply is needed. At the back of the Genlock there are industry standard BNC sockets for Video In/Out.

The top panel contains three selector buttons, each with LED indicators, for video, graphics or overlay. There is also a fourth LED to show the default mode (computer output) when no incoming video signal is present and a sliding fader to bring in graphics when overlay is selected.

This fader, which has graduated markings showing 0%, 50% and 100% mix level, is beautifully smooth to use and allows graphics to be mixed in and out as required.

It performed well. The selector buttons enable switching between graphics, video or overlay without picture disturbance. The Minigen Professional

WHAT IS A GENLOCK?

A Genlock is a piece of hardware that is either connected externally or as an additional internal board. Video signals fed to it, can be overlayed with the computer output, enabling titles or graphics to be mixed with a video picture. This new mixed output can then be re-recorded or displayed on a TV monitor.

OUT
IN
CVBS
MADE IN ENGLAND

To edit video, the source tape must be played from one machine and the required sections re-recorded onto another. This causes some signal loss which is known as generation loss.

Any equipment connected between player and recorder must be transparent to the signals to avoid additional loss.

All connecting leads should be of high quality (RG59U cable for composite video) as cheap thin leads will only cause further signal loss.

The *Minigen L500* connection showed a noticeable picture deterioration and a tendency for computer colours to be a slightly different hue as well as being desaturated colour dilution.

Both units tested had only composite Input/Output which is not ideal for S-VHS (See Video Signals box out)

Genlocks at the top end of the market can cost up to £2000 so what do you get for fifty quid? You get a few pence change and a unit that will overlay graphics satisfactorily.

The occasional user filming on VHS or Video 8 who doesn't mind diving round the back of the computer when the need arises will be very pleased with his £50 Genlock. The more serious user should read on!

TITLING TIPS

Always use high resolution non-fancy fonts with anti-alias where possible. This will avoid 'jaggies' or stepped edged and they will 'hold together' better on VHS. Don't use ANY colours at full strength, except black, particularly red and blue as they will bleed (spread across the screen).

Use white when you are using smaller fonts as with end credits. Watch how many broadcasters do! Black outlines alleviate colour bleeding. Don't use a Genlock with poor-quality pictures. Very few Genlocks will work acceptably with inferior signals. Genlocks will alter the computer centring due to timing changes. Re-adjust using Preferences from Workbench. Amiga computers have a 'feature' when connected to Genlocks which allows it to boot-up in NTSC thus making the bottom 20% of the screen in active boot-up when the scrolling horizontal bar, visible in the overlay position reaches the top of the screen.

ADDRESS BOOK

LOLA ELECTRONICS LTD 4 BRAYBROOKE ROAD LITTLE BOWDEN MARKET HARBOROUGH LEICESTERSHIRE LE16 8AD

MINIGEN L500 £49.95

A500 ✓ A500+ ✓ A600 ✓ A1200 ✓
A1500 ✓ A2000 ✓ A3000 ✓ A4000 ✓

LOLA ELECTRONICS LTD, 4 BRAYBROOKE ROAD, LITTLE BOWDEN, MARKET HARBOROUGH, LEICESTER LE16 8AD.

EASE OF USE 70%
It's extremely simple to connect and very easy to use.

VALUE FOR MONEY 80%
Wow something that costs under fifty quid and it actually works.

EFFECTIVENESS 80%
For background keying and simple captions it does the job fine.

FLEXIBILITY 30%
The loss of monitor output is an annoying factor in the L500's flexibility.

INNOVATION 75%
It's very basic but this factor is due to its low price.

> *This Genlock is probably best suited for the novice or the occasional user.*

OVERALL 75%

VIDEO SIGNALS

Much confusion arises over the signals used in video. RF signals which use coax connectors are tuneable from VTR or TV tuners but should not be used for editing or copying. Composite video signals use BNC connectors or phono connectors and have Luminance (black and white) and Chroma (colour) combined with a sync signal. The Scart provides an RGB signal which is used to allow improved picture quality on suitable TV/monitors. 4 pi 'S-Video' connectors are used on S-VHS and Hi8 to provide separate luminance and chroma referred to as Y/C. The separate signal paths enable higher resolutions to be maintained during editing or copying. If the signal is processed as composite by using a mixer or Genlock without 'S-Video' connections this advantage will be lost.

has only composite video inputs/outputs. S-VHS or Hi8 users will not get the full advantage of Y/C signal processing. (See *Video Signals*)

A comprehensive instruction manual is included with this unit which was easy to use and understand. Picture deterioration was considerably less than the *L500* but as with so many lower priced Genlocks, computer colours were noticeably diluted.

A picture control processor is available as an optional extra LOLA PVP1000 £129.95allowing adjustment of colour brightness and picture enhancement.

CONCLUSION

Both units worked reasonably well. The *L500* is very basic and is priced accordingly. The *Minigen Professional* offers better quality and a very useful fader to mix graphics and video at will.

However, serious users and those wishing to preserve S-VHS quality will have to look further afield and spend considerably more to maintain higher quality.

PAL
TV ADAPTER
L520

The Minigen Professional is well constructed and gives good results. However as it only has background keying and no 'S' terminals, it may deter serious users and semi-pros from purchasing.

MINIGEN PROFF £149.95

A500 ✓ A500+ ✓ A600 ✓ A1200 ✓
A1500 ✓ A2000 ✓ A3000 ✓ A4000 ✓

LOLA ELECTRONICS LTD, 4 BRAYBROOKE ROAD, LITTLE BOWDEN, MARKET HARBOROUGH, LEICESTER LE16 8AD.

EASE OF USE 88%
Simple to use with noise-free switching and smooth fading of graphics.

VALUE FOR MONEY 90%
Not bad value but its a shame that foreground keying is not included.

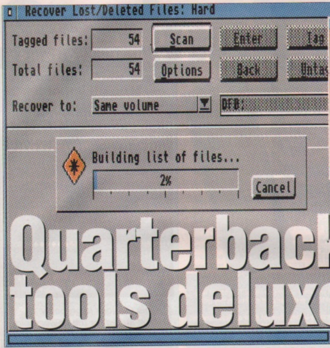
EFFECTIVENESS 85%
Works well despite slight chroma variations.

FLEXIBILITY 85%
Has monitor output so it can be left permanently connected.

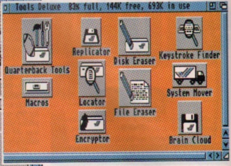
INNOVATION 90%
It looks smart and well designed but needs 'S' terminals for the serious user.

> *Effective... but you have to pay a lot more for foreground keying and S terminals.*

OVERALL 88%



Quarterback Tools Deluxe is undoubtedly the best disk repair and maintenance system available for the Amiga.



Quarterback tools deluxe

When a floppy bites the dust, don't panic! Just reach for the best disk repair software around. Mat Broomfield prepares to operate.

Quarterback Tools has long enjoyed a reputation as one the Amiga's foremost disk repair and data recovery programs. Developed by Central Coast Software (a division of New Horizons) the program has undergone constant revision. And, now we have the new updated version; *Quarterback Tools Deluxe*.

The basic program is divided into four sections: The first section, 'Analyze and Repair Volume' can be used to check and repair the entire contents of a floppy disk or hard drive.

This section can be used to detect and rectify a variety of faults ranging from individual checks and errors to major virus damage.

The second section, 'Recover Lost/Delete Files' is worth its weight in gold because it enables you to recover files which have been inadvertently deleted. If you delete an important file accidentally, you only have to use this program just once to recover any invaluable data and it will have paid for itself.

If your floppy disks are groaning under the weight of data you've squeezed onto them then the 'Optimize' option is one way of recovering the performance that they may have lost. It simply reorganises the data on your disks so that the drive can always read at maximum efficiency. The result of this is that all disk operations will be faster and any grinding noises (caused by the heads tracking across the disk) will be greatly reduced, if not eliminated altogether.

The final section is a disk sector editor which can examine and alter the contents of any sector on a disk. This is very much a tool for the advanced user and great damage can be done by amateurs who 'tinker' about with this section.

PROTECTION RACKET

QBT Deluxe contains a couple of options to protect your data both from prying eyes and your own carelessness. The first option is called Encryptor and can be used to encode any data in such a way that it can't be decrypted without the original password.

Therefore, if you use it to scramble a text file for example, the file will be turned into gibberish and a password of your choosing will be included in the gobbledygook junk file. The text file can only be read again by running it back through _QBT_'s Encryptor and entering the correct code word.

Brain Cloud is another nifty option which is applied to a DOS disk to protect its contents from accidental erasure. Although the disk stay s in DOS format, you can neither delete individual files nor reformat the disk until the Brain Cloud has been lifted.

WHAT'S NEW?

So far, the options we've looked at were present in earlier versions of the program. However, what really makes this program exceptionally useful is the collection of entirely separate programs that accompany it on the disk.

Disk and File Eraser are two programs whose sole aim is the total erasure of data. You might ask why you need such a program when the Amiga has DOS commands to do a similar thing? Well, the truth of the matter is, the DOS commands don't really erase the data from a disk; they simply change the directory listing so that 'erased' data no longer registers.

The *QBT* Disk and File Erasers work in a different way. Not only do they delete any references to a file in the directory listing, but they also over write the space that the file used to occupy with a repeating number of your choice.

Keystroke Finder is another program that I find particularly useful. It allows you to find out which keys to press to produce a particular character. A chart is displayed containing every printable character and if you click on any character with the mouse, the program displays the keystrokes necessary to generate it. The ASCII and HEX values for the character are also displayed.

System Mover copies system files to disks. It can handle the following system files: Fonts, Devs, Libs, Printers, Keymaps, Handlers, CLI Commands and CLI Scripts.

CONCLUSION

Quarterback Tools used to be a program that you didn't know you needed until something went wrong. Now thanks to the new programs on the disk, it's virtually invaluable even when everything's running smoothly.

CENTRAL COAST SOFTWARE £69.99

A500 ✓	A500+ ✓	A600 ✓	A1200 ✓
A1500 ✓	A2000 ✓	A3000 ✓	A4000 ✓

First Computer Centre, Unit 3, Armley Park Court, Stanningley Road, Leeds, LS12 2AE. Tel: 0532 319444.

EASE OF USE ◆◆◆◆◆◆◆◆◆◆ 85%
Not completely self-explanatory but pretty straight forward once you get started.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ 65%
Even at £60 discount I feel that this is a bit on the pricey side.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆ 80%
The speed increase varies with different software, but most applications benefit hugely.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ 90%
Loads of interesting programs and dozens of options for each of them.

INNOVATION ◆◆◆◆◆◆◆◆◆◆ 50%
Nothing particularly innovative, but each element is done well.

> *Essential insurance for anyone who uses their Amiga for business.*

OVERALL 80%

Power Computing's latest 32-bit memory expansion for the Amiga 1200 is now available. The PC1208 combines exceptional value with incredible features. The original PC1204 4MB 32-bit memory expansion is still available, and is exceptional value.

SIMM Technology - The PC1208 uses the latest industry standard 32-bit SIMM technology allowing you to use 1MB, 2MB, 4MB and 8MB modules.

Zero Wait State - The PC1208 never leaves the processor waiting around for data, meaning your Amiga 1200 will run at its maximum speed. Simply adding either a PC1204 or PC1208 to your Amiga 1200 will increase its processing speed by 219%.

Real-Time Battery Backed Clock - Allows files to be date-stamped with the correct time and date so that you know exactly when they were created.

Ultra Fast FPU - With the addition of a maths co-processor intensive maths operations will be accelerated by up to fifty times. The PC1208 is the only memory expansion which offers the capability to take either PGA or PLCC type FPU's.

Easy To Fit - Fitted in minutes without the need to remove the computer's case. Does not effect your warranty.

PCMCIA Friendly - Unlike other expansion boards the PC1208 does not conflict with your Amiga 1200's card slot, using the PCMCIA friendly jumper even an 8MB SIMM can be used.

PC1208 Memory Expansion

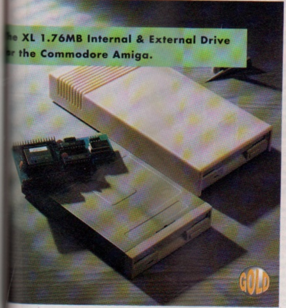
		PC1208 FPU's add:	
PC1208 Bare	£70.00	20Mhz 68881	£35
PC1208 1MB	£115.00	33Mhz 68882	£80
PC1208 2MB	£170.00	40Mhz 68882	£114
PC1208 4MB	£270.00	50Mhz 68882	£154
PC1208 8MB	£465.00		

PC1204 Memory Expansion

PC1204 4MB no FPU	£185.95
PC1204 20MHz 68881	£219.95
PC1204 25MHz 68882	£279.95
PC1204 33MHz 68882	£289.95
PC1204 40MHz 68882	£299.95
PC1204 50MHz 68882	£339.95

The PC1204 & PC1208 Memory Expansion for the Commodore Amiga 1200.

he XL 1.76MB Internal & External Drive r the Commodore Amiga.



Power Computing's XL 1.76MB Drive* for any Commodore Amiga is now available. The XL Drive includes these many features:

Formats to 1.76MB - Using high density disks you can fit a massive 1.76MB on each disk.

Acts as a standard drive - Insert an 880K Amiga disk and the drive behaves like any other Amiga drive.

Fully compatible - Will read and write disks written on an Amiga 4000 internal high density drive.

Compatible with PC disks** - Also read and write high density PC disks using a suitable device driver.

Compact size - No larger than a standard 880K floppy disk drive.

High quality design - Uses a high quality Sony high density mechanism.

Easy to Fit - The external XL Drive simply plugs into the floppy drive port at the rear of your Amiga. The internal XL Drive simply replaces or adds to your existing drive(s). These drives can be installed in minutes and no soldering is required.

Software compatible - The XL series is fully compatible with all existing hardware and software.

External XL Drive £99.95
Internal XL Drive £89.95
A4000 Internal XL Drive £99.95

*Requires Kickstart 2 or above. **Requires Workbench 2.1 or above.

48Hr delivery **£2.50**, 24Hr delivery **£4.50**
Parcel Post delivery **£1** (Orders under £50 & UK mainland only)
Specifications and prices subject to change without notice
All Trademarks acknowledged. VAT included

Power Computing Ltd
Unit 8 Railton Road Woburn Road Industrial Estate
Kempston Bedford MK42 7PN
Tel 0234 843388 Fax 0234 840234

Goods are sold subject to our standard terms and conditions of sale and are available on request.

Overdrive

Commodore
A1200

Until now A1200 owners have had to invalidate their warranties if they wanted to fit a hard drive themselves. Mat Broomfield looks at Software Demon's stunning new solution to this age old problem.

Thanks to its built-in IDE interface, it's extremely easy to add a hard drive to the A1200. However, unless you pay an authorised dealer to fit the drive for you, you'll invalidate your warranty as soon as you open the case to put the drive inside. This could land you with a hefty repair bill if your Amiga subsequently develops any kind of fault. Also, internal IDE drives are not known for their speed and efficiency when compared to their SCSI counterparts.

However, thanks to Software Demon, all of these faults have been overcome in a single, brilliant stroke called the Overdrive.

The Overdrive is the world's first PCMCIA slot hard drive for the Amiga. Yes, you have read that right, the Overdrive plugs into the 'smart card' slot at the side of the computer. The drive is housed in a white plastic shell that is the same colour and shape as the A1200's casing and it's a gnat's whisker under a quarter of the width of the A1200 and exactly as deep. It has a single red power light on top and a small power socket at the back. The unit uses both a 5 and 12 volt supply. Although Software Demon do not recommend that you make a habit of it, the Overdrive can be plugged into the A1200 whilst it's actually switched on. I tried this many times, and although the A1200 did crash on one occasion, both computer and drive appeared none the worse for the experience.

WHAT DO I GET?

When you buy the Overdrive it's supplied with two pieces of software: *AQ Tools* and *Civilisation AGA*. Before you can use the drive, it needs to be prepped (ie inserting the AQ disk and double clicking the icon). A second icon on the AQ disk will automatically copy all disks from the Workbench environment onto the drive for you. Once that's done, the drive is ready to use. In terms of speed, the Overdrive is capable of writing at an average speed of 1.214 megs per second, that's 300k faster than my beloved GVP A530 Turbo! This makes it the fastest IDE drive ever reviewed by CU AMIGA. In fact, it's faster than any SCSI drive ever reviewed by CU as well.

HOW MUCH DOES IT COST?

If you already have an internal hard drive, you can still add an Overdrive externally; you'll just need to tell *AQ Tools* to configure the external drive differently. Because the drive plugs into the PCMCIA slot it can be disabled in two ways; the easiest is simply to unplug it, and as I've already mentioned, you can even do that whilst the computer is switched on.

The second alternative is to disable the drive using the boot-priority section of the Start-up Options screen. By default, the drive has a high-boot priority which places it above any internal drive that you may have installed, but needless to say, that too can be changed.

Although prices have not been absolutely fixed yet, Software Demon expect to offer a 170 meg drive for only £299, whilst 85 meg units will retail for about £250. They're able to offer such low prices because the unit uses the cheaper three and a half inch IDE drives, as opposed to the expensive 2.5" drives used internally.

With prices this low, it's actually feasible to buy both an external and internal drive together so that one is used as the back-up device for the other. An ultra portable pocket-sized 2.5" unit has been developed, but Software Demon are not sure if there's a sufficient call for such a unit, and therefore haven't come up with any release or pricing plans yet. Congratulations to Software Demon for what looks like being one of the most innovative hardware products for the A1200 to date. CU

For more information about the Overdrive ring Software Demon on 0736 331 039. Full review next month.

PARALLEL HARD DRIVE

For those with a taste for something a bit different, Software Demon have an IDE hard drive that connects to the Amiga via the Parallel port.

For an IDE drive, the box is rather large; it's about an inch tall with a top surface about the size and shape of a sheet of A5 paper.

The reason that it's so big is that it houses a six-cell rechargeable battery pack. It was designed primarily for portable PCs, hence the battery pack, but works fine from the Amiga.

It plugs into the Parallel port, and uses the non-autobooting PAR: device, so you won't be able to use it to boot up your system. Even so, in conjunction with an existing hard drive, it could add some much-needed storage space. Transfer rates are likely to be about half that of most IDE drives. If you've got a printer, you'll still be able to use that with the aid of the through port.

SEIKOSHA - QUALITY PRINTERS

Silica Systems are pleased to recommend the high quality range of Seikosha printers. Built to the highest standards by a company that is used to manufacturing quality precision products. Seikosha are part of the massive Seiko/Epson group with a turnover of £6 billion and 18,000 staff! Every dot matrix printer from Silica comes with a free printer starter kit which includes all you need to get up and running with your new Seikosha printer (see below).

FROM ONLY **£109** EXC VAT

FREE! FROM SILICA

- **DELIVERY** *Next day - anywhere in the UK mainland.*
- **HELPLINE** *Technical helpline during office hours.*
- **AMIGA DRIVER** *Seikosha Plus Printer Driver with every SL-95*

For extra high quality output. Features include:

- Definable Dither Routines
- 16-point Colour Adjustment
- Ink Compensation Correction
- Workbench 2/3 GUI
- Prints up to 256 Shades of Grey
- Enhanced Print Speeds
- Full Control of Printer Typefaces, Graphics/Paper Size, Margins

- **STARTER KIT** *With every Seikosha dot matrix printer*

FREE! FROM SILICA WORTH £29.38

Every Seikosha dot matrix printer from Silica comes with a FREE Starter Kit, worth £29.38 (£25+VAT).

- *3½" Disk with Amiga & ST Printer Drivers*
- *1.8 Metre Parallel Printer Cable*
- *200 Sheets of Quality Continuous Paper*
- *100 Continuous Tractor Feed Address Labels*
- *5 Continuous Envelopes on Tractor Feed*

9-PIN 80COLUMN 192CPS

FREE! STARTER KIT & DELIVERY SEE LEFT

ON-SITE WARRANTY 1 YR - ONLY £10+VAT - POS 8515

- *Seikosha SP-1900 Plus*
- *9-Pin Dot Matrix*
- *80 Column*
- *192cps Draft, 48cps NLQ*
- *1K Printer Buffer + 2 Fonts*
- *Parallel Interface*
- *Graphics Resolution: 144 x 72dpi*
- *Epson and IBM Emulation*
- *Auto Sheet Feeder Option*
- *Friction Feed and Push Tractor - Auto Paper Load, Paper Parking*
- *FREE Silica Printer Starter Kit*

PRINTER RRP	£149
STARTER KIT	£25
TOTAL VALUE:	£174
SAVING:	£65
SILICA PRICE:	£109

£109 + VAT = £128.08 PRI 8195

9-PIN 80COLUMN 300CPS

FREE! STARTER KIT & DELIVERY SEE LEFT

ON-SITE WARRANTY 1 YR - ONLY £10+VAT - POS 8515

SP-2415 WIDE CARRIAGE £219

- *Seikosha SP-2400*
- *9-Pin Dot Matrix*
- *80 Column*
- *300cps SD, 240cps D, 60cps NLQ*
- *21K Printer Buffer + 5 Fonts*
- *Parallel and Serial Interfaces*
- *Graphics Resolution: 240 x 144dpi*
- *Epson and IBM Emulation*
- *Friction Feed and Push Tractor*
- *Paper Parking Standard*
- *Optional Auto Sheet Feeder Unit*
- *FREE Silica Printer Starter Kit*

PRINTER RRP	£185
STARTER KIT	£25
TOTAL VALUE:	£210
SAVING:	£71
SILICA PRICE:	£139

£139 + VAT = £163.33 PRI 8204

24-PIN 80COLUMN 240CPS

FREE! STARTER KIT & DELIVERY SEE LEFT

ON-SITE WARRANTY 1 YR - ONLY £10+VAT - POS 8515

- *Seikosha SL-90*
- *24-Pin Dot Matrix*
- *80 Column*
- *240cps SD, 192cps D, 84cps LQ*
- *20K Buffer + 2 Fonts*
- *Optional Font ROM*
- *Parallel Interface*
- *Graphics Resolution: 360 x 360dpi*
- *Epson LQ850 Emulation*
- *Built-In Semi-Automatic Cut Sheet Feeder - Paper Parking, Auto Paper Load - Optional Automatic CSF*
- *FREE Silica Printer Starter Kit*

PRINTER RRP	£199
STARTER KIT	£25
TOTAL VALUE:	£224
SAVING:	£65
SILICA PRICE:	£159

£159 + VAT = £186.83 PRI 8296

24-PIN COLOUR DOT MATRIX

SAVE £70 OFF RRP ~~£249~~ £179

COLOUR

FREE! STARTER KIT & DELIVERY SEE ABOVE

FREE! SEIKOSHA PLUS AMIGA PRINTER DRIVER

ON-SITE WARRANTY 1 YR - ONLY £10+VAT - POS 8515

240 CPS **80** COLUMN

- *Seikosha SL-95 - 24 pin - Dot Matrix*
- *240cps SDraft, 192cps Draft, 64cps LQ*
- *43K Printer Buffer + 9 Fonts*
- *Parallel Interface*
- *Graphics Resolution: 360 x 360 dpi*
- *Epson LQ860/850/2500/2550 Emulation*
- *Colour Printing as Standard* (Includes Colour Ribbon - Black Ribbon Optional Extra)
- *Semi Auto Single Sheet Feeder*
- *Optional Auto Cut Sheet Feeder*
- *FREE Silica Printer Starter Kit*

PRINTER RRP	£249
STARTER KIT	£25
TOTAL VALUE:	£274
SAVING:	£95
SILICA PRICE:	£179

£179 + VAT = £210.33 PRI 8305

FAST 128 NOZZLE INKJET

LATEST TECHNOLOGY! ~~64~~ 128 NOZZLES ULTRA FAST 300CPS LQ

SAVE £80 OFF RRP ~~£359~~ £279

FREE CABLE & DELIVERY

BUILT-IN AUTO SHEET FEEDER

ON-SITE WARRANTY 1 YR - £24.63 INC VAT - POS 8522

300 CPS LETTER QUALITY **80** COLUMN

- *SpeedJET 300 - Inkjet Printer*
- *High Capacity 128 Nozzle Inkjet Head*
- *Large Ink Tank - up to 4.2 Million Characters*
- *300 CPS Draft (10cpi) - 300 CPS LQ (10cpi)*
- *24K Printer Buffer - 3 Built-in Fonts*
- *2 IC Card Slots for Buffer Expansion + Fonts*
- *Parallel I/F - Graphics Res. 300 x 300dpi*
- *HP Deskjet Emulation (PCL3)*
- *Built-in Auto Sheet Feeder (100 Sheets)*
- *Economical to Run - only 1.3p per page*
- *Ultra Quiet - 46dB(A) Maximum*

PRINTER RRP	£359
TOTAL VALUE:	£359
SAVING:	£80
SILICA PRICE:	£279

£279 + VAT = £327.83 PRI 8630

4PPM LASER

LASER STARTER KIT 1.8m PC PARALLEL CABLE, PAPER, LABELS, ENVELOPES RRP £29.38 SILICA ONLY £14.69 inc VAT

FREE DELIVERY

SAVE £450 OFF RRP ~~£899~~ £449

INCLUDES 1 YEAR ON-SITE WARRANTY

4 PPM **300** DPI

POSTSCRIPT VERSION £849+VAT = £997.58

- *OP-104 - 4 Pages per minute*
- *HP LaserJet IIP™ Emulation*
- *Resolution: 300x300dpi - 14 Resident Fonts*
- *Uses Original HP® Font Cards*
- *Postscript Emulation Option (Extra)*
- *Optional IBM, Epson & Diablo Emulation Cartridges*
- *Centronics Parallel & RS232C/RS422 Serial Interfaces*
- *512K RAM - expandable to 2.5Mb*
- *Flexible paper handling: Standard paper cassette - 100 sheets, Optional 2nd bin - 300 sheets*
- *Quiet Operation 46dB(A)*
- *Compact Design with Straight Paper Path*
- *Cable required: CAB 7500 for PC - £9.95 or CAB 7614 for ST/Amiga - £12.95*

PRINTER RRP	£899
TOTAL VALUE:	£899
SAVING:	£450
SILICA PRICE:	£449

£449 + VAT = £527.58 LAS 8004

240693-1330

SILICA SYSTEMS OFFER YOU

- *FREE OVERNIGHT DELIVERY:* On all hardware orders shipped in the UK mainland.
- *TECHNICAL SUPPORT HELPLINE:* Team of technical experts at your service.
- *PRICE MATCH:* We normally match competitors on a "Same product - Same price" basis.
- *ESTABLISHED 14 YEARS:* Proven track record in professional computer sales.
- *£12 MILLION TURNOVER (with 60 staff):* Solid, reliable and profitable.
- *BUSINESS + EDUCATION + GOVERNMENT:* Volume discounts available **081-308 0888.**
- *SHOWROOMS:* Demonstration and training facilities at all our stores.
- *THE FULL STOCK RANGE:* All of your requirements from one supplier.
- *FREE CATALOGUES:* Will be mailed to you with offers + software and peripheral details.
- *PAYMENT:* Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE 081-309 1111

SILICA IS A DIVISION OF PROCIS PLC

SILICA SYSTEMS

MAIL ORDER: Order Lines Open: Mon-Sat 9.00am-6.00pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX No Late Night Opening	**Tel: 081-309 1111** Fax No: 081-308 0608
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-6.00pm	52 Tottenham Court Road, London, W1P 0BA No Late Night Opening	**Tel: 071-580 4000** Fax No: 071-323 4737
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-7.00pm	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB Late Night: Thursday - 8pm	**Tel: 071-629 1234** Extension: 3914
SIDCUP SHOP: Opening Hours: Mon-Sat 9.00am-5.30pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Late Night: Friday - 7pm	**Tel: 081-302 8811** Fax No: 081-309 0017
ESSEX SHOP: Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm)	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Late Night: Thursday - 7pm	**Tel: 0702 468039** Fax No: 0702 468039

To: Silica Systems, CMUSR-1093-84, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A BROCHURE ON THE SEIKOSHA RANGE

Mr/Mrs/Ms: .... Initials: .... Surname: .... Date: ....

Company Name (if applicable): ....

Address: ....

....

.... Postcode: ....

Tel (Home): .... Tel (Work): ....

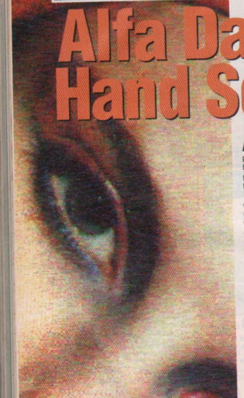
Which computer(s), if any, do you own? 84M

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

Alfa Data Hand Scanner

What do hand scanners and buses have in common? You don't see any for ages then three appear at once. Mat Broomfield gets the latest from Golden Image.

The software lets you save images in the current screen format or as 24-bit IFFs. Alternately you can choose between 16 or 64 shade grey scale images if you're working with a mono scan. As soon as you save an image, it's erased from memory which is a bit silly..



A couple of months ago we reviewed the Migraph Colorburst hand scanner and this month we take an offering with a very similar pedigree from Golden Image. However, just because the two scanners share the same background, doesn't necessarily mean that they share the same performance.

Both scanners, however, are in identical black casing. But this is not unusual as many companies use the same scanning 'engine'; it's what they do with it that really counts. So here's a quick run down on how they operate: generally, a scanner is attached to the computer via a large interface which plugs into the parallel (printer) port. The interface is about the size of an external disk drive and has a through port at the back so that you can plug your printer in without unplugging the scanner. You can switch between the two via a two-way switch on the front of the unit. There's even different coloured lights for the printer or scanner so you can tell which one is active in the dark!

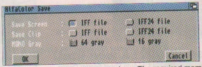
NICE DESIGN

As with all scanners, the Alfa Data unit needs extra power and rather than use an external power supply, the unit draws the necessary amount from the external drive port (or the through port of an external drive). This is great, because it means you don't have to mess about with power cables all over the place.

Unfortunately, if you already have a lot of peripherals connected to your computer there may not be enough power left over for the scanner. However, you can get around this by buying the optional external power supply which costs £39.95.

Once the scanner is plugged in, it's simply a matter of loading the software and you're ready to begin. The software can be installed on a hard drive by simply dragging a single icon to the required location on the drive. Alternatively, it can be loaded directly from the single floppy it's supplied on.

BEFORE YOU BEGIN



AlfaColor Save

Save Screen : ● IFF file ○ IFF24 file

Save Clip : ○ IFF file ○ IFF24 file

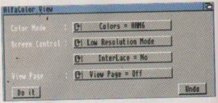
MONO Gray : ☐ 64 gray ☐ 16 gray

When the software loads the main control screen appears. This screen displays all the options and set-up parameters. Your processor and FPU specs are shown as well as the currently-selected scan mode and dimensions. The required memory is also shown. Unless these defaults are suitable, you'll have to go into the set-up menu to change them.

You can specify the scan mode, resolution and scan size, the scan speed and whether or not turbo boards are fitted.

There are five scan modes ranging from SuperColor, to dithered and text mode. In SuperColor the scanner will capture a colour image with an 18-bit resolution.

Dither mode can also be used for colour work. It uses a smaller palette than supercolor mode, but uses ditherng (halftone) techniques to give the impression of lots of colours.The resolution section lets you choose one of the scanner's four predefined resolutions. These vary according to the scan mode being used. SuperColor scans use resolutions between 50 and 200 dots per inch increasing in 50 DPI increments, whereas the other modes increase by 100 DPI ranging from 100 to 400 DPI.



AlfaColor View

Color Mode : Colors = HAM6

Screen Control : Low Resolution Mode

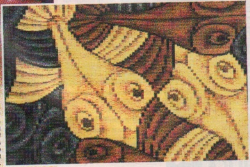
InterLace = No

View Page : View Page = Off

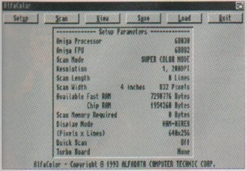
Scans are displayed in eight colours as you do them, and these are then converted into a display that uses the current screen preferences. If you want to see the whole of an image that's too big for the screen, the view requestor will scale it to fit although there will be some loss in quality.

The next two gadgets allow you to specify the dimensions of the scan. There's a cycle gadget that you can toggle between one, two, three or four inches wide and a slider for setting the length. The maximum length can be calculated according to the amount of free RAM, the width and the scan mode chosen.

For example, on a 2Mb A1200 with a width of two inches in SuperColor mode, I was able to specify a maximum length of 4.03 inches. When I switched to text mode that increased to 43.10 inches. Below the dimension gadgets there are a couple of radio buttons that can be used to specify the measuring system: imperial or metric. Strangely enough, if you set the maximum scan size according to this section, when you try and scan you immediately receive a 'not enough memory'



This image was scanned from the cover of a magazine and would be more than adequate for semi-pro DTP work or as a stand alone screen.The dither mode is ideal if you don't have much memory or an AGA machine. As this image demonstrates, the mode can bring out a high level of contrast and detail.



AlfaColor

```
------------- Setup Parameters -------------
Amiga Processor                        68030
Amiga FPU                              68882
Scan Mode                   SUPER COLOR MODE
Resolution                         1, 200DPI
Scan Length                          0 Lines
Scan Width             4 inches   832 Pixels
Available Fast RAM             7298776 Bytes
          Chip RAM             1954368 Bytes
Scan Memory Required                 0 Bytes
Display Mode                        HAM-HIRES
(Pixels x Lines)                      640x256
Quick Scan                               Off
Turbo Board                             None
```

AlfaColor - Copyright © 1993 ALFADATA COMPUTER TECHNIC CORP.

The main screen is very pleasantly uncluttered, which means that the program is extremely easy to learn.

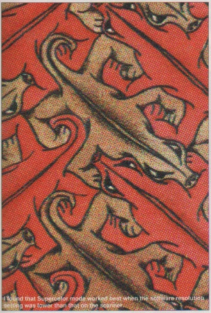
warning. A bit of sloppy programming there!

In SuperColor, Color Grey and Mono Grey modes you can set an additional option called Quickscan which is intended for use whilst you're still experimenting with the settings. It simply lets you double the speed of your scan by halving the vertical resolution.

The software claims to support accelerators and has a special button that switches accelerator mode on and off. Unfortunately, when this is turned on, all scans appear in the wrong colours and are totally useless.

SPEED KILLS

The software also claims to be three times faster than the previous version, but frankly this simply isn't true. I found the scanner to be more sensitive to speed than any other scanner I've ever used before. If you move it at much above a crippled snail's pace the finished scan will have great big chunks missing. This is more true in some modes than others, the colour ones in particular. In CG mode it was almost impossible to move the scanner slowly enough!



I found that Supercolor mode worked best when the software resolution setting was lower than that on the scanner.

Once you've set your scanning preferences, it's time to do a scan. Click the scan button and a requestor will appear telling you to let the scanner warm up. A two-minute counter also appears. If this is the first scan of a work session you should let the heads warm up for a full two minutes, but subsequent scans will only need a few seconds of warm up time. The heads need this warm up time in order to reproduce consistent colour information.

When you think that the heads are warm enough, click 'start scan' and the scanner is ready for use. Press the scan button on top of the scanner, drag the unit slowly over the image to be scanned. As you do so, a beeping noise will emanate from the interface.

This beeping corresponds directly to the speed at which you move the scanner and is useful both for gauging your speed and ensuring that a scan is being taken correctly. When you take a scan, a roller on the bottom of the unit is used to let the scanner know that you're moving across the page. It's essential that this roller stays in contact with the paper at all times during a scan. If you're only scanning a flat piece of paper this won't present a problem, but if you're scanning from a less reliable surface (the curved page of a book for instance) then the scanning indicator is especially useful. As you record a scan, an eight-colour representation is built up on the screen to indicate how far you've got.

When the scan has been been completed, the full image is built up and displayed. If the image is larger than the screen or you want to see it in a screen mode other than the current one, the View requestor lets you do so.

24-BIT SAVE

When you're happy with your results you can save the scan in either the current screen resolution or as a 24-bit IFF image. If the scan was in monochrome, you can opt to save it as a 16 or 64 shade file. Strangely enough, there's also the option to save a clip, yet there's no option within the software to define one in the first place.

I can't let the matter of file requestors go without mentioning an absolutely fatal bug that the program has – if you go deeper than three directory levels on a disk, it crashes every single time!

Also, it won't let you attempt to save the same screen twice. The second time it won't even let you near the file requestor; as soon as you select 'save' the program says, 'unmodified image data' and dumps you unceremoniously back where you came from. When I tried to alter the save format to clip, the program crashed.

This many fatal errors in the most important requestor of the program really is most unacceptable and definitely needs to be sorted out immediately.

CONCLUSION

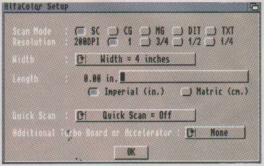
The Alfa Data scanner works well and is easy to use. However, I feel that this is in spite of its software, not because of it.

The scanner seemed to work particularly well when scanning commercially-taken photographs which are all skillfully lit, but when it came to my own photographs it wasn't as easy to get decent results. Control over the contrast and saturation of the image would have helped the situation.

The option to produce 64 shade grey scale images is an added bonus and will prove invaluable to people who use their scanner in a semi-professional desk top publishing environment.

Despite that, this is still the cheapest and easiest way to digitise pictures and photographs. If you already own a decent video camera I suggest that you go for a digitiser such as Rombo's Vidi12, especially if the images to be digitised are quite large. If you don't own a video camera or the images are very small, the Alfa Data scanner is certainly the best colour hand scanner yet.

When you compare its price to the £600 plus level of flat bed scanners you start to appreciate its value all the more. CU



AlfaColor Setup

Scan Mode : ● SC ○ CG ○ MG ○ DIT ○ TXT
Resolution : 200DPI ● 1 ○ 3/4 ○ 1/2 ○ 1/4
Width : Width = 4 inches
Length : 0.00 in.
● Imperial (in.) ○ Matric (cm.)
Quick Scan : Quick Scan = Off
Additional Turbo Board or Accelerator : None

This is where you'll choose from one of the five scanning modes. I found CG the best.

ALFA DATA £299

A500 ☑ A500+ ☑ A600 ☑ A1200 ☑
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

Golden Image, Golden Image House,
Fairways Business Park, Lammas Road,
London, E10 7QT. Tel: 081 365 1102.

EASE OF USE ◆◆◆◆◆◆◆◆◆◆ 95%
Couldn't be easier
VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ 85%
Ideal entry level price
EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆ 80%
Does the job well, but the software has far too many bugs, some of which are fatal
FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ 85%
Scans in a variety of modes, but has no editing features once a scan is taken.
INNOVATION ◆◆◆◆◆◆◆◆◆◆ 80%
Not the first, but certainly the best. Great results, easy to use, fair price but more bugs than an ant farm!

> *The most desirable A1200 peripheral yet.*

OVERALL 87%

THE MICRO ADVENTURES OF...

SAM IGA
"...BY THE TIME I REACHED THE SCENE, THE DISCS HAD BEEN 'RUBBED OUT'... THERE WAS ONLY ONE THING TO DO. CALL 'SIREN SOFTWARE' FOR EXTRA BACKUP!"

TELEPHONE
061-724 7572
FAX 061-724 4893

USES LATEST CUSTOM CHIP DESIGN
INCLUDES THE NEW 'CYCLONE' CARTRIDGE FOR BACKING UP PROTECTED SOFTWARE

X BACKUP PRO

X-Backup Pro is the most powerful disc backup utility available for the Amiga, BUT DON'T TAKE OUR WORD FOR IT... *CU Amiga Magazine, July 1993*

"IT'S UNBEATABLE."

'a veritable bargain at just £39.99' *Amiga Computing, September 1993*

'fast, flexible and reliable' *Amiga Computing, September 1993*

£39.99

+ £1 postage & packing

THIS PRODUCT MUST NOT BE USED TO INFRINGE COPYRIGHT.

Unlike other disc backup utilities, X-BACKUP PRO is totally automatic and extremely simple to use. It is fu compatible with ALL AMIGA computers.

- Will backup virtually any disc onto another disc.
- Full hard disc backup.
- File management facility.
- Optimise, formats, repairs, verifies.
- Includes the 'AUTOSWITCH' CYCLONE cartridge. Simply plugs into the external disc drive socket at the rear of the Amiga, and plug your extern disc drive into the back of the CYCLONE cartridge fo unbeatable disc backup power. An external disc driv is required for use with the CYCLONE cartridge. Thes are available from us priced £54.99.

FULL MONEY BACK GUARANTEE.
If you can find a more powerful disc backup utility, w will give you your money back.

A1200 4mb memory expansion with clock
32 bit wide auto configuring Fastram.
Zero wait state allows the A1200 to run at full speed.
Increase the speed of the computer by 219%
Battery backed clock keeps the correct time and date even when the A1200 is switched off.
Simple trapdoor installation.

Verdict 85%

£159.99

SPECIAL OFFER

Deluxe disc drives
Whisper quiet. Slimline design. Suits any Amiga. Coolin vents. Sleek, high quality metal casing. Quality Sony/Citizen drive mechanism. On/Off switch and throughport at the rear of the drive. Full 880K capacity. Long reach connection cable.

CYCLONE COMPATIBLE

£54.99

HARD DISC DRIVES

85mb	£189.99
120mb	£289.99
A1200 with 85mb hard disc drive fitted	£489.99
A1200 with 120mb hard drive fitted	£589.99

Our 2.5" hard drives for the A600/A1200 offer speedy access times and come complete with fitting cable, screws and full instructions. They are preformatted and have Workbench installed for immediate use. Fully guaranteed for 12 months.
Fitting service available for £25.00.
Please phone **061 724 7572** for further details.

SUPERB VALUE FOR MONEY

Order **NOW** for immediate despatch
Tel. 061 724 7572 Fax 061 724 4893
Telesales open 9am – 6pm Monday-Friday
Access/Visa accepted
Send a cheque/Postal order or credit card details to:-
Siren Software, Wilton House, Bury Rd, Radcliffe, Manchester M26 9UR England
Government, Education and PLC orders welcome.
All prices include VAT at the current rate. Postage and packing w be charged at £3.50 per order (U.K.), £7.50 Europe, £12.50 rest world.
Please note that 5 working days must be allowed for cheque clearance. Immediate clearance on Building society cheque or Bank Draft.

IMPROVED SOUND QUALITY

SoundBlaster

Soundblaster
The SOUNDBLASTER is a 10 watt stereo amplifier that comes complete with high quality 3 way speakers, power supply and FREE STEREO HEADPHONES!
The SOUNDBLASTER adds a new dimension to games playing, imagine stunning stereo sound effects, crystal clear samples and terrific stereo tunes. The SOUNDBLASTER also boosts games playability!
The speakers are powerful 50 watt 3 way units featuring a 3" woofer, 2" honker and a 1" tweeter to provide a powerful crisp sound.

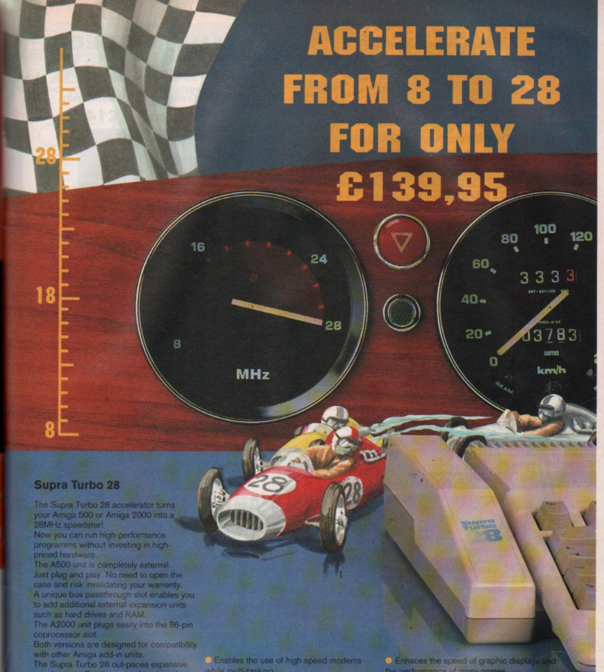
£44.99

WE'VE GOT WHAT YOU NEED

IREN
OFTWARE

Wilton House,
Bury Rd,
Radcliffe,
Manchester
M26 9UR
England

ACCELERATE FROM 8 TO 28 FOR ONLY £139,95



Supra Turbo 28

The Supra Turbo 28 accelerator turns your Amiga 500 or Amiga 2000 into a 28MHz speedster!

Now you can run high-performance programms without investing in high-priced hardware.

The A500 unit is completely external. Just plug and play. No need to open the case and risk invalidating your warrenty.

A unique bus passthrough slot enables you to add additional external expansion units such as hard drives and RAM.

The A2000 unit plugs easily into the 86-pin coprocessor slot.

Both versions are designed for compatibility with other Amiga add-in units.

The Supra Turbo 28 out-paces expensive accelerators. But if you need to slow down for games or older software, use the external on/off switch or the software speed control.

This package contains detailed installation instructions and everything you need to increase your computers speed from 7MHz to 28MHz in record time.

- Enables the use of high speed modems while multi-tasking.
- Makes the Workbench environment more responsive
- Lets you run more complex animation at faster speeds
- Speeds decompression and loading of still graphics
- Enhaces the speed of graphic displays and the performance of many games
- Reduces the time required for compiling programs
- Completely compatible with 68000 processor - even while accelerated
- Easy A2000 installation

This quality product is distributed by:

Micro-PACE UK, Ltd.
DISTRIBUTORS
(+44) 0753 551 888

Supra

SELECTAFONT

THE UKs LARGEST COLLECTION OF FONTS

PIC n MIX
from over 50 Disks in
ADOBE or COMPUGRAPHIC
Format. Each Disk contains 12
Fonts and costs between
£1.80 and £3.00

THE UKs CHEAPEST FONT SUPPLIER!

250 New Fonts Recently Added!

Each Font Costs Between 15p–25p

STARBURST POWERLINER AMY NORM
CHINESE RIBBONS WEDGIE hairpin
HEADHUNTER BEEHOUSE MEDUSA

Please note that we are the ONLY Font Supplier who gives a comprehensive guarantee to each and every Font.

INK–JET/BUBBLEJET SERVICES

Having used Ink–Jets for 3 Years, we feel we are in a unique position to offer a first class service to all of our customers. We only supply PREMIER ink refills (for all printers) which we GUARANTEE will give a BETTER quality than from your original Cartridge. We also supply a comprehensive range of Ink–Jet/Bubblejet Consumables including:
PAPER/LABELS/TRANSPARENCIES/COLOUR KITS/ORIGINAL CARTRIDGES/CLEANING KITS

Single Refills	£6.99	available in Black/Cyan Magneta/Yellow/Brown Green/Red/Blue
Twin Refills	£12.99	
6 Pack Refills	£24.99	

DECISIONS?
UNBIASED ADVICE HELPLINE FOR ALL CUSTOMERS

We also stock a large range of DTP s/w and can give super back up service as we use all we sell

PROBLEMS?
24 HOUR TECHNICAL HELPLINE FOR ALL CUSTOMERS

For a Comprehensive Printout of all Fonts and Details of our other Services, Please send a large SAE with 36p Postage. (Or Phone for an Information Pack). Please include details of your system and the Software that you will be using.

SELECTAFONT (DEPT CU),
84 THORPE ROAD, HAWKWELL
Nr HOCKLEY, ESSEX SS5 4JT

PHONE AN INFO–PACK:
TEL 0702 202835
24 HOUR SERVICE

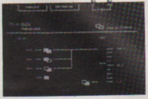
AMIGA VIDEO

from LOLA

MINIGEN PROFESSIONAL GENLOCK

NEW combined GENLOCK, PAL ENCODER and SYNCHRONIZED OVERLAY KEYER CONTROLS **IN ONE UNIT**

MiniPRO L1000 *only* **£149.95**



Features:
- Crossfade slider • RGB through port • BNC Connectors
- Cable connection to Amiga - allows professional video desk layout
- Push button mode switching - allows live programming changes

Also available:

CDTV GENLOCK	- plug in card	£79.00
miniGEN genlock	- the original and now even better value	£49.95
L520 TV ADAPTER	- modulator for A500 etc (includes Amiga/ TV Leads)	£29.95

Accessories - L520 extension lead plus plus other video lead kits available

For information on all the above please write or phone

LOLA ELECTRONICS LTD.
FREE POST
MARKET HARBOROUGH
LEICESTERSHIRE LE16 7BR

☎ 0858 880182

All prices include
VAT & P.P.

12 month guarantee, 14 day full refund. Designed and manufactured in the U.K

BUS STOP P.D

**DEPT CU 6 SMITHS AVENUE, MARSH,
HUDDERSFIELD HD3 4AN
TEL: (0484) 516941**

RUN BY WOMEN FOR THAT BIT MORE!

LSD DOCS 1-39 AVAILABLE LARGE SELECTION OF EDUCATION AND GLAMOUR LOTS OF FONTS AND CLIP ART CHEQUES PAYABLE TO: BUS STOP P.D.

ALL DISKS 500/+/600/1200 COMPATIBLE ALSO CHEAP ACCESSORIIES AND SECOND HAND GAMES

GAMES
Trek Trivia
Fruit Machine 2
Fighting Warriors
Tetren
Soccer Cards
Strikeball
Battlements
Holy Grail
Gameboy Tetris
Dynamite Dick
Ethos
Ghost Ship
Chess
Wrex
Top of The League
Atom Smasher

MUSIC
Guns n Roses
Safe Sex
Metal Music
Depeche Mode
Beatles
Voice Samples
Led Zeppelin
Piano Classics
Top Gun

UTILS
1.3 Emulator
Dr Mag
Show Std
Hackers Ethic
Rippers
Text Engine V4
Freecopy V1.8
Join Sounds
600 Letters
Picture Box
Spectrapaint
Degrader & CAG
Sid V2.0
V Morph V2.0
Bus Stop Utils 1
Maverick Copy

ANIMS
Iron Maiden
Fast Cars
K.D. Lang
Busy Bee
Anti Gameboy
Dracula
Aircraft

ONLY 85p Per Disk P&P 50p Per Order 24 HOUR SERVICE ALL DISKS VIRUS FREE CATA-LOGUE 50P & S.A.E. *OVER 1300 TITLES*

Central London

fast
Amiga Repairs
Upgrades

+Engineering requirments

***Normal service**
£24.99+prts
(Average.turnaround)
48hrs
Quotes £15.00*

*** guaranteed
same day service**
£34.99 +prts
(comps recieved
before 11am)*

Door to door pick up +delivery anywhere in the U.K -£ 5.00 E/W inc.insurance

Low Cost memory upgrading
A500/A500+ to 1mb £17.50
A500+ to 2mb £29.99
A600(w.clock)to 2mb £34.99

HCS ENGINEERING
144, Tanner St. Tower Bridge
London SE1 2HG
Tel. 071-252 3553

EPIC

Public Domain Software

Order hotline: 0793 512073

VISA · MasterCard · EUROCARD · Access

LATEST

()**C465-2. SPECTRUM EMULATOR** Latest version of the speccy em. now on 2 disks, it runs a treat on A1200, comes supplied with a few speccy games on disk, but can load up your own software from cassette. (*ver1.06*) Interface available for £40.00 if you require it. Can use a standard sampler.
()**C467. PPSHOW 3.0A** Can display crunched power packed pictures
()**C468. AIRPORT** new game
()**C469. THE RIGHT WAY** Brilliant new lemmings game, just as addictive as the original
()**C470. DECEMBER GAME**
()**C471. GRAND PRIX MANAGER** new management game
()**C472. HYBRID INSTRUMENTS** Extensive collection of instruments
()**C473. INTERDER ALERT** fabulous new shoot em up
()**C474. FORCASTER/MINISPREAD** Horse race predictor and a spreadsheet
()**C475. CONTINENTAL TECH** dance Outragous new rave demo
()**C476. FAST INTRO MAKER** 2 Powerful new demo maker, different graphical effects
()**C477. SAMPLE FACTORY 2** More sampled sound effects
()**C478. KLAW GAMES 3**
()**C479. KLAW UTILITIES 2** Includes Amiga Diary plus more
()**C480. BOX THE ADVENTURE**
()**C483. BOOTEM+bootgirl (english)** Put pictures on the bootblock, or practically any thing else you want
()**C484. Text viewers & pic showers**
()**C485. BONDMINE 12**
()**C486. Great escape of billy burger** Great new platform game
()**C487. THE National WEATHER**
()**C488-2. TENAJ MODULES**
()**C490. SPACE CLEANER GAME**
()**C491. SUPER PRIX**
()**C492. TV TITLES**
()**C494. MAVERICK COPIER** Removes password protection
()**C495. KICKSTART EMULATOR** Use workbench 3 on your A500 or A600
()**C496. IFF BOOT** shows pics on HD
()**C497. POWER DATA** runs in back

UTILITIES

()**C329. ABASE V.133** Very powerfull and flexible database, perfect for anything from a video collection to friends and relatives etc
()**C004. AMIGA TUTORIAL** Great tutorial for beginners to learn a little
()**C121. A600 NUMPAD** Numerickeypad emulator, essential for A600
()**C151. TEXT ENGINE 4** we regard this as the best PD word processor out
()**C155. X-KOPIA.** Very powerfull disk copier, inc various copy modes.
()**C033. Dynamite PRINTER DRIVERS** Around 100 various printer drivers for Star, Panasonic, Citizen etc
()**182-12.C MANUAL** (12disks) Latest version of C the lanuage
()**B937. TEXT PLUS v4.0** Advanced wp package
()**B969. LITTLE OFFICE** includes word processor, database & sprad-s
()**B970. DUNKS DTP** kids dtp package
()**C013-2. COMPUTER EYES FONTS** a 2 disk collection of Amiga fonts
()**C084. CANNON STUDIO 1.2** essential for use with the cannon BJ printers
()**C125 T.A.C.K.** (the animation con kit) Allows you to create animations with syncranised sound fx brill
()**C194. ENGINEERS KIT** fault finder. Tests your drives, memory, sound etc
()**C201. ARESTURE (UNDELETE)** Can undelete (get back) deleted files either from floppy or hard disk
()**C236. V MORPH V2B** Unreal morphing program. create effects similar to the ones in T2 etc.
()**C237. Last will & testament.** Do your own will, and save money
()**C261-5 HINTS & CHEATS** (5 disks) Hundreds of usefull cheats
()**C256. FREE PAINT REVISION 37**
()**C300. ACTION REPLAYA500/A600** Action replay that you can use on the 600
()**C311. FILE-O-FAX** get organised
()**C336. FRASCAPE** create stunning landscapes & save them out
()**C347. EXTERMIN 8 V2.02** essential selection of virus killers, the most up to date available.
()**C390. HP PRINTER DRIVERS** A collection of drivers for HP printers

GAMES

()**C515. GIDDY** Brilliant new cute platform game, very addicive
()**B280. PETERS QUEST** a 20 level arcade platformer, great stuff
()**B836. KAMAKAZI CHESS** a variant of the classic board game, chess
()**B832. BUG BASH** fast paced frantic Bug bash (requires degrader to work)
()**B819. AMIGA PUNT** race predictor
()**B812. SUPER PAC MAN** the best pac-man game ever. don't miss it
()**B885. HEMEROIDS** Excellent Asteroids game, well addictive
()**B899. MIDDLE EAST MANIA** get Saddam before he gets you
()**B907. OTHELLO**
()**B918. SPACE RESQUE** amazing quality shoot em up, featuring unreal paralax scrolling etc
()**B940. WIZZARD WORLD** very cute platform game
()**B947. LEEDINGS** ideas taken from lemmings
()**B951. ETYPE II** upto date asteroids game with great graphics very fast
()**B955. TOP SECRET** Possibly the best 2 player game ever
()**B952. GAMEBOY TETRIS** Areplica of the game boy
()**B966. SPACE TRAX 2** play space shoot em up, kill before he kills you
()**B968. HELL ZONE** Very similar to the arcade game R-Type, but with better graphics
()**B973. CYBERNETIXS** Upto date defender clone, bloody amazing stuff
()**B990. BOUNCE N BLAST** very cute platform game
()**B979. DOODY** wonderfully cute platform game
()**B998. PUGGLES** similar to Q-Bert
()**B993. TRAIL BLAZER** race the ball down a never ending road
()**C046. MARIO'S WONDERLAND** Mario on the Amiga?
()**C082. GALAGA '92** Fantastic shoot em up. ace stuff
()**C250. ROACH MOTEL** excellent new maze cum platformer game

LATEST

()**C388. TETRIS PRO** excellent polished tetris
()**C389. DIGITAL TETRIS**
()**C390. HP PRINTER DRIVERS**
()**C391-2. ADOBE FONTS 1**
()**C393. CD FONTS**
()**C394. JOYSTICK TESTER**
()**C395. INTERACTIVE DANCE** trash
()**C396. SANITY JESTERDAY**
()**C397. JELLY "GLOBAL CHAOS"**
()**C398. HEADLINE** 'black energy'
()**C399. FREESTYLE "PERFECT 5"**
()**C400. COMPLEX "DELIRIUM"**
()**C401. PIECE OF MIND**
()**C402. ANDROMEDA** "point break"
()**C403. MORE WB3 HACKS**
()**C404. Childrens FAVOURITES**
()**C405. WINBLENDER**
()**C407. HP550C PRINTER DRIVER**
()**C409. Seikosha printer drivers**
()**C410. LOCKPICK 2** removes password protection from over 400 amiga games. an essential purchase
()**C411. TITANICS CHEATS**
()**C412-4. QUALITY TIME 5MEG**
()**C417. BAD FORMAT** can format disks with hard errors so you can still use them
()**C418. NFA A1200 TOOLS**
()**C419-2. FIT CHICKS DISK AGA**
()**C421. Professional printer drivers**
()**C422. RETINA BURN RAVE** new A1200 version of a great rave demo
()**C423-2. AGA SLIDESHOW DISK**
()**C435. FREAKS BODY SHOP AGA**
()**C426. BAIT MASKING** comical animation from Erik Swartz
()**C427. HARD DISK UTILITIES**
()**C428. ANDY'S WB3 UTILITIES**
()**C429. PLASMA CLOUDS 256**
()**C430. RUSSIAN ADOBE FONTS**
()**C431. Technological DEATH RAVE**
()**C434. NCOMM V3**
()**C435. DEVWARE JPEG UTILS** aga
()**C436. JPEG UTILS** aga
()**C463. THE DISK MAG ISSUE 1**
()**C464. UNDER COVER BRILL!** excellent music collection

Around 100 new titles added every month, call for the latest...

A1200 ONLY

NEW A1200 CATALOGUE DISK

As part of Epic's continuing commitment to bringing A1200/A400 users the latest in PD software we are proud to bring you the worlds first true A1200/A4000 PD catalogue disk. It contains detailed information of all our AGA specific PD disks.

()£1.50 seperate or only £1.00 with any order

()**C434. ACTION REPLAY IV A1200** A version of Action replay that you can actually use on the Amiga 1200. It allows you to rip graphics, music, games give yourself more lives and more
()**C356. DEGRADERS** Is an essential new collection of 1200 de-graders. Includes KICK1.3, FAKEMEM, KILL AGEv2, & the popular DEGRADER,you should achieve 95% compatability with this disk
()**C433. PC TASK V2(VGA 256 colours)** The ultimate in softw are PC enulatorsm runs PC VGA software on your amiga in glorious 256 colour mode. MSdos is required to use this program and is available from us for just £2.50
()**C286. HOIS A1200 MEGA DEMO** This is the worlds first A1200 demo features an amazing fade routine
()**C175 I CHESS** (4meg) The first ever A1200 pecific game, requires 4 meg
()**C153. WB3 BACKDROPS.** Asel of Workbench 3 backdrops. Impressive
()**C355. NEW WB3 SUPER KILLERS** A collection of virus killers
()**C375. DOS DRIVERS** Should give every amiga owner full compatability
()**C255. VIEW TEK 1.03** The first and most impressive AGA graphics displayer
()**C209. WB3 RAINBOW.** A spectacular new look for your workbench, allows you to put a snazy user changable effect behind your workbench
()**C501. TIME WARP(HOI 2)AGA** Unreal new AGA mega demo. Yow!
()**C465-2. SPECTRUM EMULATOR** Very fast A1200 version, runs speccy software on the Amiga!
()**C556. PANTA RHEI (AGA). WOW.** Brand new A1200 mega demo. superb graphics and very fast. Includes realtime 3D animated fracals!

FREE BOX OF TEN BLANK DISKS WITH EVERY ORDER OF 15 TITLES OR MORE

CLIP ART

()**ART1-2. WEDDINGS (2 disks)**
()**ART2-2. HOUSES (2 disks)**
()**ART3-3. RELIGIOUS (3 disks)**
()**ART4. WW1 AIR CRAFT**
()**ART5-2. MEN (2 disks)**
()**ART6-2. WOMAN (2 disks)**
()**ART7-2. KIDS (2 disks)**
()**ART8. BUSINESS**
()**ART9. OFFICE**
()**ART10. STUDENTS**
()**ART11. SALETIME**
()**ART12-3. X-MASS (3 disks)**
()**ART13-3. PUNCH (3 disks)**
()**ART14. ANIMALS**
()**ART15. CATS**
()**ART16. SILHOUETTES**
()**ART17-2. SCHOOLS (2 disks)**
()**ART18. BABIES**
()**ART19-2. SCHOOLS (2 disks)**
()**ART20. OLYMPIC**
()**ART21-2. MEDICAL (2 disks)**
()**ART22. SEA LIFE**
()**ART23. DECORATIVE MONTHS**
()**ART24. WACKY**
()**ART25. HOLIDAYS**
()**ART 26-2. BANNERS (2 disks)**
()**ART 27. ART NOUVEAU FLOWER**
()**ART28. BUTTER FLIES**
()**ART29-2. FOOD (2 disks)**
()**ART31-2. BORDERS (2 disks)**
()**ART32. MAC CLIPS**
()**ART33. HORNBACK**
()**ART34-2. TEDDY BEARS (2 disks)**
()**ART35-2. VANITY FARE (2 disks)**
()**ART36. HALLOWEEN ART**
()**ART37. SHOWTIME**
()**ART38. VEGITABLES**
()**ART39. FLORAL**
()**ART40. MYTHS**
()**ART41. DOG WOODCUTS**
()**ART42. CAT WOODCUTS**
()**ART43. AFRICAN WOODCUTS**
()**ART44. AMERICAN WOODCUTS**
()**ART45. ARTIC WOODCUTS**
()**ART46. FARM WOODCUTS**
()**ART47. MIXED ANIMAL WCUTS**
()**ART48. BIRDS WOODCUTS**
()**ART49. MORE ANIMALS**
()**ART50. ANIMAL LINE ART**

EMULATORS

()**B997. IBM EMULATOR FOR A500+**
()**C465-2. SPECTRUM EMULATOR**
()**C433. PC TASK V2 (AGA)**
() **. C64 PACKAGE V2**
()**B979. ATARI ST EMULATOR**
()**C15-2. QL EMULATOR**
()**B897. KICKSTART 2 EMULATOR**
()**C495. KICKSTART 3 EMULATOR**
() **. PC EMULATOR FOR A500**

COPIERS

()**C494. MAVERICK COPIER** removes copy protection from hundreds of games
()**0659. TETRACOPY** powerful disk copier, that you can play tetris whilst copying an disk.
()**C410. LOCK PICK 2** removes copy protection from over 400 games
()**C155. X-KOPIA** very powerful
()**C070. DISK MATE**, simple workbench copier
()**B934. FREE COPY 1.8** removes copy protection from various games
()**B302. DCOPY 2** Very powerful disk copier featuring various copy modes
()**B333. SUPER DUPER** Very fast disk copier
()**I775. PAC COPY** play pacman whilst copying another disk

COPIERS

()**3357-2. KEFRENS Desert Dreams.** This is the best demo to appear for a long time. A collectors item
()**C431. TECHNOLOGICAL DEATH** Very impressive new mega demo
()**C162. SANITY** world of commodore
()**C087-2. JESUS ON E'S (2 disks)**
()**C422. RETINA BURN AGA A1200** version of brilliant rave demo
()**C909-8. THE HAUNTED** (8 disks) The best ever Amiga animation (2meg)
()**C094-2. ROAD HOG** (2 disks)
()**C058. Simply STATE OF THE ART.** The ultimate rave treat. WOW

BUSINESS

()**B434. BANKN & CLARK** keep account
()**B969. LITTLE OFFICE**wp/dbase/spread
()**C474. MINI SPREAD** powerful s-sheet
() **. DATA ANALYST**
()**C311. FILE O FAX** get organised
()**C329. ABASE 1.33** Very poweful
()**C371. ADDRESS PAINT 3.1**
()**C407. EXCEL DATABASE**
()**A938. 600 BUSINESS LETTERS 600** template letters to load into your WP
()**C522. ACCOUNT MASTER**
()**C298. GRAMMER CHECKER**
()**C151. TEXT ENGINE 4**
()**C032. FANCY DISK LABLER**
()**B906. THE DTP PROGRAM** simple to use Desk Top Publisher software

JUST IN

()**C360. RSI Demo maker 500+/A1200** The best demo maker available can now be used on the A500+ and A1200
()**C520. REBOUND** Good breakout game
()**C522. ACCOUNT MASTER** home use
()**C523-3. AMATURE RADIO 1-3**
()**C526. COLOUR ARCRAFT ART**
()**C527. REVELATIONS** amazing
()**C528. POST & PS FONTS**
()**C529. FRACTIONS** educational
()**C530. QUICK GRAB AGA**
()**C531. PREMIERE PICKS** football
()**C532. GAME TAMER 4.01**
()**C533. FONT FARM 3** 60 fonts, great
()**C535. DICE COMPILER**
()**C539. SUPER DARK** screen blanker
()**C549. STD CODE** input town & STD code will be displayed
()**C550. SAFE II** brill new disk copier
()**C555. TALENT MEGA DEMO**
()**C557. SPACE INVASION** addictive
()**C559. POOLS WIZARD JNR**
()**C560. KIDS DISK 2** inc 3 games
()**C562. MUSIC BASE UTILITY**
()**C563. ROAD TO HELL GAME** ace new top view race game 2 players
()**C569 MICRO MARKET GAME**
()**C570. RUMMY** the card game
()**C572. SIMON** simon says

LATEST

()**C330-4. KING JAMES BIBLE DISK** The bible on disk
()**C336. FRACSAPE V1.0** fractal generation software, great
()**C337. RPG ADVENTURE** creator create your own adventure
()**C338. SILVER BLADE** new shootem
()**C339. AMIGA BEGINNERS GUIDE** If you are a complete beginner get this disk
()**C340. CASH FRUIT** fruit machin sim
()**C341. DAVY'S DINGBATS (CG)** Compugraphics dingbats
()**C342. Escape from a very large cave.** A cave runner clone but good
()**C343-2. OLEMPIAD** similar to Decathlon but you control lemmings?
()**C345. CASTLE NOMIS** excellent new platform game
()**C346. AMOS PRO UPDATE 1.12** Update your Amos Pro to version 1.12
()**C347. EXTERMIN8** essential collection of virus killers
()**C349. SPACEBALLS MOBILE** new spaceball demo
()**C350. STAR PRINTER DRIVERS** Star printer drivers collection
()**C377. SOLITAIRE** latest and best solitaire game by tower software
()**C378. AIBB V5** Amiga benchmark test for testing your computers speed
()**C379-3. OCTAMED PRO SAMPLES**
()**C382. LSD LEGAL TOOLS +89** large selection of useful utilities
()**C363-3. GRAPEVINE 15**
()**C366. RELAYER GAME**
()**C367. AMIGA E V2.1** new programming language for the Amiga better than C
()**C371. BOP N PLOP** kids game with cuty graphics

ALSO AVAILABLE BY NAME

ASSASSINS GAMES DISKS 1-110+
(The most popular collection of PD games ever)

FISH DISKS 1-800+
(over 800 disks full of utils, games etc)

JUST IN

()**C498. TRUE ED 5.5** New text editor
()**C499. BANNER** Creates banners
()**C500. HKMEM** require MMU etc
()**C501. TIME ZONE HO12** fab new A1200 mega demo wow wee...
()**C515. GIDDY** Addictive new platform game, great for kids.
()**C516. BLOAD RUNNER** new load runner clone, brilliant stuff
()**C517. PATIENCE** the card game
()**C518. MONACO** very fast racing
()**C519. FRUIT SALAD** cute platformer
()**C520. REBOUND** Amazing hi-teck pong clone. 2 players
()**C521. PAC SIM** a classic
()**C522. ACCOUNT MASTER** keep track of your home accounts
()**C523-3. AMATURE RADIO**
()**C526. COLOUR AIRCRAFT ART** Amazing colour clip art
()**C527. REVELATIONS (ART)** totally brilliant hand drawn graphics, contains a few adultish pictures
()**C528. POST & PS FONTS**
()**C529. FRACTIONS** educational
()**C530. QUICK GRAB AGA** grab AGA screens and save them out
()**C531. PREMIERE PICKS** New version of this unreal management football game 'The Premiere League'
()**C532. GAME TAMER 4.01**
()**C533. FONT FARM 3 50** great fonts
()**C538. ERROR INFO V2**

EDUCATIONAL

()**C240. FIREWORK ALPHABET**
()**C072. MATHS REFLEX TEST** answer as many questions right as you can as quick as you can
()**C065. DIVISION**
()**C026. FOUR STROKE ENGINE**
()**B931. MATHS CALCULATOR**
()**B915. Henryetta's BOOK OF Spells**
()**A420. LEARN & PLAY**
()**B016. MATHS TALK**
()**B065. ALGABRA II**
()**B068. MATHS WIZARD**

ORDER FORM CU
Name PAUL PALMER
Address 15 RODING LANE
BUCKHURST HILL ESSEX
Tel 081 504 2541 Amiga A1200
Total order value:£ 14 Total disks 8
Payment method CHEQUE

Credit card details
Credit card no ....
Expiry date ....

PD Prices per disk
1 single disk £3.00 2-5 disks £2.00 each
6-10 disks £1.75 each 11 or more £1.50 each

Overseas Orders
Overseas orders are welcome, but please add 25p to each disk ordered, & a minimum of 5 disks apply. All foriegn orders are sent by first class Air Mail

Collecting Disks
You are welcome to collect your PD order, but you are advised to phone it through prior to collection. Office hours: 9.30am - 5.30pm Mon - Sat

Ordering by Post
Simply mark off the titles you wish to order and send the coupon to Epic Marketing, 1st Floor Offices, 31 Farringdon Road, Swindon, Wiltshire, SN1 5AR, enclosing full payment either by cheque, Posta order, money order or simply your credit card details.

Ordering by Phone
To place an order over the phone simply call us, any time between 9.30am & 5.30pm Monday to Saturday with your credit card details and the disks you would like to order.

All titles listed should work on any amiga unless stated.

Wired world

The digital highway is coming. You'll soon be spoilt for choice in the brave new world of computer telecommunications. Today's modems and fax machines carry information all over the world in the blink of an eye, but they are only the start of a complete revolution in the way we live. Every Amiga is capable of taking part in – or even spearheading – the data revolution. So join us as we wander around the global village looking for a working telephone box.

You might be sitting in your own room, but your Amiga could be talking with another computer on the other side of the planet. Arthur C. Clarke's famous prediction of a global village draws nearer every day. The wires which carry BT's telephone service into your house can also connect you to one of the world's most important commodities: information.

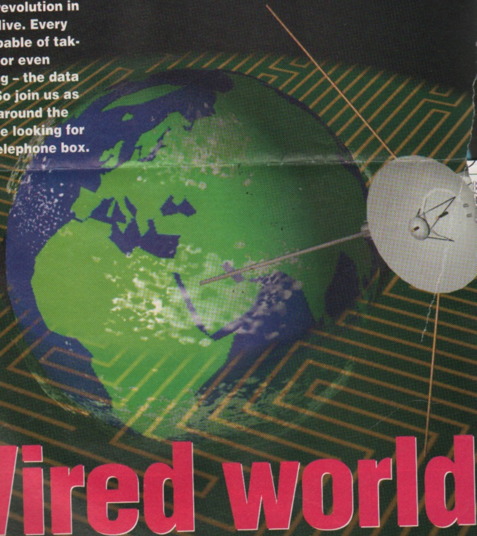
Once encoded into binary form, information can move at the speed of light around the globe and it only takes a small box the size of a paper-back to enable text, sound, even full-colour pictures to be sucked from the ether onto your Amiga screen.

Currently, only a small percentage of home computer users get on-line. The big users are the corporations and banks which need large amounts of data moved around immediately.

Already the telephone lines are not enough because they are designed for voice transmission and little more. Their capacity for carrying information is sorely limited. The next step is the laying of optical fibres which can carry many thousands of times more data. With this much capacity, a lot more than a single conversation can be transmitted. With large capacity ISDN channels cropping up more and more frequently, the problem isn't going to be how much data can be squeezed down a line, rather how much can you take in one go?

WHERE YOU FIT IN

Before you can connect your Amiga to the outside world, you'll need to invest in some extra hardware and software. The software side is easy; most public domain libraries have large stocks of suitable terminal emulation software (NComm, Term) which are ready and waiting for you to use. Using a fax-compatible modem is a little trickier, as fax standards expect data to be sent in a very rigid line-by-line



method. GVP's *PhonePak* comes with software to send faxes, but the stand-alone program *GPFax* is probably the best for the job where ordinary modems are concerned. Faxes can be created from either Ascii files or ILBM graphics, and sent immediately or scheduled for later transmission. Cover sheets, company logos and personal signatures can be included automatically, and the user interface is a doddle to use.

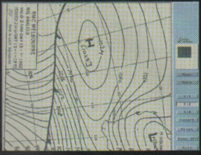
GPFAX is a very flexible piece of software. It can wait on the Workbench for a scheduled transmission or an incoming fax. If the outgoing fax line is engaged, it will wait and try again later.

GPFax
GPFax
GPFax Options

GPFax also has a special printer driver, which means any program which normally outputs hard copy can be redirected. If you buy a fax-modem, remember to ask if it has *GPFax*.

Although computers can produce suitable serial data without a second thought, the voltage and current levels involved are entirely unsuitable for transmitting down a voice channel like the public telephone service. An intermediate interface is required which can take the binary data from the computer and convert it into audible tones. Such a piece of equipment is said to MODulate and DEModulate an audio carrier frequency, hence the term modem. Fax machines are nothing more than computers with modems attached and built-in mono-chrome image scanners and thermal printers.

GVP's *PhonePak*. opens up new exciting areas as it can can deal with humans *and* computers.

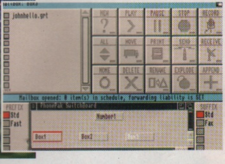


GPFAX allows received faxes to be previewed on the screen, before sending them to a printer if required. This option is also good for checking that your fax doesn't look like a pile of plop before you send it.

Phonepak

CU AMIGA
TOP RATED

When designing a new system, all the possible routes between mailboxes must be defined. For example, if the user enters a one on the 'phone handset, the system will jump to mailbox Box1.



johnhello.grt

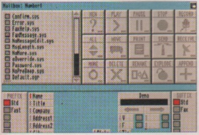
Mailbox opened: 0 item(s) in schedule, forwarding liability is SET

Number1

Box1 Box2

When is your Amiga not your Amiga? When it's a telephone answering machine of course... or a fax machine... or an intelligent voice mail system. In other words, when it has a GVP *PhonePak* card installed.

With its array of huge icons, even visually impaired users like myself don't have problems selecting the right icons. On the left is the list of messages present in this mailbox.



Mailbox: Number1

Confirm.sys
Error.sys
FaxHelp.sys
FaxMessage.sys
NoMessageEdit.sys
MsgLength.sys
NoMore.sys
oOverride.sys
Password.sys
NoPreBeep.sys
Default.ogr

Name
Title
Company
Address1
Address2

"I'm sorry, there is no-one here right now: please leave a message after the tone". A simple sentence which can still strike fear in the heart of most people, myself included. Suddenly, all confidence evaporates, the vocal chords constrict and next thing you know you've left a message along the lines of: "Erm, I hate these machines. It's me here, I wanted to see you about the erm. OK, I'll call you later. Oh it's John by the way. And it's Tuesday. Ok. Erm. Bye."

If it sounds familiar, then you are are cursed with answering-machine phobia: the stilted speech, the confused messages, the total embarrassment. With a little Amiga technology that can all be changed. The answering machine from hell can be transformed into an artificially-intelligent messaging service; all thanks to the latest product from GVP.

WAY BACK

It all started – according to Christopher E. Darsch, head of the design team at Atlantis Design Group – as a desire to make answering machines more fun. They wanted a machine that could give fun messages, take answers and sample them onto a hard disk. With messages stored digitally, they could be replayed in any order, automatically date stamped and a whole lot more.

When they brought this idea to GVP, the perspective changed. The *PhonePak* became a lot more than an intelligent answering machine: it became a voice and fax mail system. You just won't believe all that this Amiga Zorro card is capable of. I know, I'm still thinking of new ways to use it – so lets start with something simple. How would you like a separate answer machine for everyone in your house, and yet still only use one line?

INSTALLATION

PhonePak plugs into any Zorro slot on any suitable Amiga, namely an A1500, A2000, A3000 or A4000 (although due to a bug in the A3000's hardware you'll need some extra memory on another Zorro slot in order for the card to work properly). There are four connections at the back: one to the telephone wall socket, one to an actual telephone, one to the Amiga's left audio output and one to an external amplifier. Then it's a matter of installing the software – a process which takes seconds – and you can start to play.

PhonePak comes with two separate programs, the main *PhonePak* editor, and a small utility called *LineMan*. *LineMan* runs independently in a tiny window on your Workbench, listening for any incoming calls. When it receives one, it answers the phone and passes control to the main *PhonePak* system.

IN THE SYSTEM

Think of the 'system' as a collection of rooms. When a caller enters each room they are given a spoken message on the telephone. This message could be something simple like, "I'm sorry, there is no-one here at the moment. Please leave a message after the tone". A room can also record a message, and store the resulting sound file as a stand-alone sample which can be replayed at any date. It all sounds very simple, but with BT's own answering machines starting at £30 these days, you would expect a little more. And there is more,

»

JARGON BUSTERS

WHAT DOES IT ALL MEAN ?

At parties, there are always various people who distinguish themselves by their amazing ability to bore to tears anyone unfortunate to be trapped into talking to them. The DIY enthusiast with his ripping yarns of wallpaper alignment, and the performance car 'expert' amongst others are knuckle-whiteningly boring.
Furthermore, many's the party-animal who has been reduced to a coma or suicide by the diode and chewing-gum crystal-set type anecdotes of the radio ham, but when the anorak wearers such as these come together to discuss such things, one group alone stands out as being supreme in the art of being boring gits, namely the 'Comms Expert'. Now, with CU AMIGA's essential guide to Comms jargon, you too can don that polyester anorak...

ARQ: Automatic repeat request. This is a function of the MNP error-correcting protocol.

AT COMMAND: This is the *de facto* standard for issuing commands to modems from your computer through an asynchronous serial port. It was started by Hayes and adopted by other modem manufactures, and is in fact very far from standard for any modems later than those limited by the V.22bis standard.

AUTOSYNC: This is the term given to the buffering which is necessary between the asynchronous serial port of your computer and a synchronous modem protocol such as HDLC or SDLC.

ADPCM: Adaptive Pulse Code Modulation. This is the name given to the method of dynamically reducing the bandwidth on telecomms channels in response to the reduced bandwidth demands by the signal.

BAUD: This is the rate at which data symbols are transmitted by the modem. Since a data symbol may consist of more than one bit depending on the modulation method used, this is not exactly the same as bps.

BPS: Bits Per Second. This is the absolute rate of data transmission.

CCITT: Consultative Comittee on International Telegraph and Telephone. This lot set international standards for telecommunications which are advisory rather than mandatory and, amazingly, people adhere to them !

CLASS 1 FAX: A standard for fax software compatibility with fax modems. It requires the host computer to do most of the image preparation and interpretation, as well as the negotiation with the remote fax machine.

CLASS 2 FAX: You've guessed it! Yes, this is another standard for fax software, EIA approved in 1992, this time delegating more of the negotiation to the remote fax machine than class 1. Image preparation and interpretation is still carried out by the host computer.

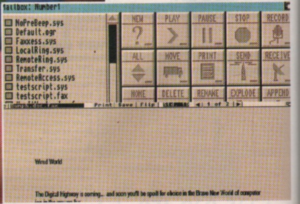
CPS: Characters per second.

CRC: Cyclic redundancy checking is the method used by MNP error correction to ensure data integrity.

» so much more. Nearly all 'phones now use tone dialling. As you dial a number, the 'phone sends out a bleep to the local exchange where the tone is converted back into a number. It's a very fast system, but it has a few other benefits as well. The tones can be sent whilst in the middle of a conversation, and *PhonePak* uses this idea to offer callers a form of interaction. The simple answering machine can now be expanded to offer editing facilities. After you leave a message, a smooth American voice (or yours if you want) will ask you if you want to re-record your message, or add something more. To select your option from this 'voice menu', all you have to do is press a few buttons on your handset.

Although this is quite an advanced system compared to standard answering machines, it only takes about five minutes to get it up and running. The *PhonePak* editor makes designing these 'mailboxes' remarkably easy, and the large icon-based screen is powerful simplicity in action. The Line-Man program makes testing the system extra-easy. All you need do is pick your own phone and press a key, and *PhonePak* directly connects your handset and treats you as an external caller. You aren't connected to the external line, so you can test your system over and over without collecting a bill for the privilege. It only takes a few attempts playing with the system before your appetite is well and truly whetted. Now for something a little more advanced, how about that answering machine for everyone in the house?

***PhonePak* will display faxes on-screen, so you needn't get involved with rolled up sheets of thermal paper unless you really feel you have to.**



Wired World

The Digital Highway is coming... and soon you'll be spoilt for choice in the Brave New World of computer

DB: Decibel - the unit used to measure the ratio between two signals on a logarithmic scale.

EIA: The Electronic Industries Association of America. This body sets US national standards which are frequently adopted by other countries. Examples of this include the Class 1 & 2 fax standards and our old favourite the RS232 serial port standard.

ETSI: European Telecommunications Standards Institute. Uncharacteristically, for such groups this bunch set out mandatory standards for the European telecommunications industry.

FALL-BACK: No, it's not what CU technical writers tend to do after 15 techila slammers, but instead this is the ability of a modem to select a slower transmission speed if the quality of the telephone link is poor.

FALL-FORWARD: Amazingly enough this refers to the ability of a modem to up its tranmission speed to take advantage of an increase in quality of the phone line.

FRAME: A block of data plus its relevant header and trailer information.

FULL DUPLEX: Simultaneous data transmission in both directions along the telephone line.

HALF DUPLEX: Non simultaneous data transmission in both directions along the telephone line.

HDLC: High-level Data Link Control is an error-correcting synchronous communications protocol.

HST: High Speed Transfer is an extra fast transmission standard.

ISDN: Integrated Services Digital Network. This is a new type of dial-up telephone network which supports the transmission of digital data directly, rather than needing modems to decode digital signals onto an analogue network.

KBPS: Thousands of bits per second.

LAP-M: An error correcting protocol used in the V.42 standard.

MNP: Microcom Network Protocol has become a de facto standard in error correction and data compression. MNP5 has become the standard in error correction.

PTT: Postal, Telephone and Telegraphy administration. This organisation provides telecommunications services on a national basis.

QAM: Quadrature Amplitude Modulation is one of the most impressive sounding terms in the comms-bores lexical arsenal, and refers to the method of modulating the phase and amplitude of the carrier signal used for V.32 and above.

SDLC: Synchronous Data Link Control is an error-correcting synchronous communications protocol.

UART: Universal Asynchronous Receiver Transmitter is an integrated circuit used to interface your computer to an asyncronous serial port.

V.17: A CCITT standard for communication at 14,400bps. This rate is primarily used for fax transmission.

V.21: A CCITT standard for 300bps, now well past it.

V.22: A CCITT standard for communication at 1,200bps with a fall-back speed of 600bps.

V.22bis: A CCITT standard for communication at 2,400bps »

HAPPY FAMILIES

If your household is anything like mine, you have several people all wanting to use the same 'phone. Messages for other members of the family get forgotten or confused and everyone needs their own line and machine.

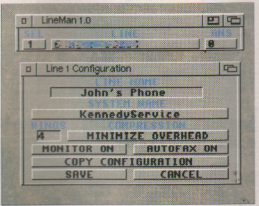
With three young males in my house, a single telephone can cause friction. *PhonePak* can help. On the editor screen, create a new mailbox for each member of the family. In each, leave a greeting ("I'm Sorry, John can't come to the 'phone right now. Please leave a message after the tone.") for when you aren't at home.

Next create a main mailbox, which gives messages along the lines of "Hello, welcome to the Kennedy household. If you want to speak to John, please press 1. To speak to Andrew, please press 2." and so on.

Now every member of the household has their own answering machine in the form of a mailbox which can be filled with messages. But what happens if only one person is out of the house? Can the system be expanded to cope with this situation? No problem; *PhonePak* incorporates its own scripting language which is specifically designed for more complicated systems.

Imagine if the system enquired from the caller who they wished to speak to, then tried to page this person and only when this failed did the answering machine switch on. All that's needed is a script such as that shown below, executed when the caller is routed from one mail-box to another. This sample script is what occurs when a caller tries to talk to me.

```
<play PleaseWait.msg> ;Tell the caller "Please
wait while I page John..."
<announce ItsForJohn.msg>;
Broadcast "It's for John" over the computer's mon-
itor speaker
<play RemoteRing.sys> ;
Play a ringing sound to the caller
<announce LocalRing.sys> ;
Broadcast a ringing sound over the Amiga
<play RemoteRing.sys>
<announce LocalRing.sys> ;
Repeat to give John time to answer
<quit> ;
John didn't pick up, go to system;
and ask caller to leave a message.
```



SEL: 1
ANS: 0
LINE NAME: John's Phone
SYSTEM NAME: KennedyService
RINGS: 4
COMPRESSION: MINIMIZE OVERHEAD

Lineman exists almost invisibly on the Workbench, waiting to answer calls. Here I have expanded the view in order to change some options. For example, Autofax On will check that the caller isn't in fact a fax machine, which can cause a few seconds of delay.

IT'S A SECRET

When you send numbers down the line, you can also send passwords. Any mailbox can be set up to secretly accept a combination of button presses and act on them. For example, if my extra pretty but quickly-bored girlfriend calls me, she knows that by pressing '9999' at any time during the 'I'm sorry there is no-one here' speech the computer will immediately page me with a message expressing the sentiment that I'd better pick up the 'phone in a hurry if I know what's good for me. If you happen to run a club, your members can dial your number up and enter a special code to immediately get information without bothering with your private answering service.

By the way, recording your own message is only a matter of pressing a button and speaking into the 'phone: your voice is digitised and stored on disk with remarkable clarity via the on-board sampling hardware. The more adventurous can use any IFF standard sound samples for more, ahem, interesting results.

BUSINESS USE

When you've played with *PhonePak* at home for long enough and created enough messages to put off all your friends from ever calling you again, it's time to put your Amiga to work. In a business of any size, a *PhonePak* can offer some amazing services. To give that one-man company the image of an international business, why not create several 'virtual telephonists' who route incoming calls through several 'virtual switch boards' before eventually passing the calls through.

Any business needs access to a fax machine, and surprise, surprise, *PhonePak* comes with one built in. Any standard Ascii text or two-colour IFF bitmap can be converted to a fax document, and sent to any fax machine on the planet. As the images are created without scanning, the quality is superb – easily surpassing any traditional fax machine. *PhonePak* can also receive faxes. LineMan will do so automatically if you ask it and once stored on disk as IFFs they can be sent to your own printer.

No more mucking around with rolls of thermal paper. *PhonePak* is one of the easiest-to-use plain paper fax machines around. Even better, the fax facilities are all integrated under software control. A caller can leave a spoken message and a fax with one call. *PhonePak* will link them, so you know you sent them; an excellent concept. Sending faxes can be automated too. Your answering system could offer to send prospective clients copies of promotional material by fax, all they have to do is key number '66' or whatever you want. I'm currently trying to convince Dan to install a *PhonePak* at the CU office to provide voice and fax mail facilities, and if he caves in you could soon be downloading back issues by 'phone!

EASE OF USE

PhonePak's software and documentation are excellent, with tutorials to guide you through all the features. The version two software we received includes better support for remote access. So, for example, when you dial home »

TECH SPEC

The *PhonePak* works in any Zorro slot, and in fact up to five can be fitted to an Amiga A2000 which will operate without needing any form of accelerator, thanks to GVP's custom DMA handling hardware.

Sounds are replayed using on-board chips which produce output as good as any you will hear down a 'phone line, certainly clearer than the tiny little cassette tapes you get in normal answering machines. Even better, because the messages are stored on hard disk, you can listen to them in any order you like.

Connecting the *PhonePak* to the real world presents some minor problems. First, as an American product the connectors look nothing like our trusty BT 'phone jacks. Silica provide adaptors. Secondly is the fact that BT are dead against just anyone using their telephone lines. All equipment needs to be tested and passed with a green triangle before it can be used. At present, *PhonePak* does not have a green sticker.

>> V.22bis: A CCITT standard for communication at 2,400bps with fall-back speeds of 1,200bps and 600bps.
V.23: A CCITT standard for split rate communication at 1,200/75bps. This was developed for applications such as Prestel, which needed to present the user with information at 1,200bps but only required input from the user's keyboard at 75bps.
V.24: This is a CCITT standard for serial port hardware. It is electrically equivalent to RS232D and defines which pins of the standard 25-pin D-connector are used for what.
V.25/V.25b is: A CCITT standard for issuing modem commands for autodialling. It is much more limited than the similar Hayes AT command set, but has the advantage of being able to work with synchronous protocols.
V.27TER: A CCITT standard for communication at 4,800bps with a fall-back speed of 2,400bps. This is another speed standard primarily used for fax transmission.
V.29: This is the CCITT standard for commication at 9,600bps. This is another one mostly for faxers. >>

from work you can be told exactly when a certain message was received. Using *ARexx* also allows some pretty amazing features; if you are going out for the evening to a friend's house, *PhonePak* can call you up, and replay any incoming messages.

If I had any criticisms at all, it would be that some features are hard to find in the supplied instruction book; it took me a day to discover that pressing ALT and clicking marked a mailbox on and off. However, it took me so long because I forgot to press the Help key.

CONCLUSION

PhonePak is an amazing piece of kit. It provides a seamless interface between the Amiga and real world on the end of a telephone line, and once that has been achieved the possibilities are endless. The supplied software, complete with scripting language and *ARexx* support, means that systems of incredible sophistication can be created. You can even run multiple *PhonePaks* in a single Amiga to handle multiple 'phone lines. Serious use requires an Amiga be dedicated to the task, but even this means complicated systems can be created for really low initial outlays. Without a doubt, *PhonePak* is a ground-breaking product.

PHONEPAK £350-400

A500 ☒ A500+ ☒ A600 ☒ A1200 ☒
A1500 ☑ A2000 ☑ A3000 ☑ A4000 ☑

**SILICA SYSTEMS, 1-4 THE MEWS,
HATHERLY ROAD, SIDCUP, KENT, DA14
4DX. TEL: 081 309 1111.**

EASE OF USE ◆◆◆◆◆◆◆◆◆◆88%
Some features buried or missing from the otherwise excellent manual. Creating complete systems is a doddle.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆96%
It works almost flawlessly. Due to the technological nightmare that is the Telephone network, some handsets have problems creating suitable tones. All the ones I tested worked fine.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆97%
So much is possible, you can think of six new applications every day.

INNOVATION ◆◆◆◆◆◆◆◆◆◆99%
At last something new and exciting that isn't about 24bit graphics.

OVERALL 96%

WHICH MODEM ?

BUYERS GUIDE

As the Amiga uses the industry standard RS232 serial interface, most modems available for PC compatibles are suitable. This has the benefit of keeping prices down and standards up. Here is a list of Amiga-test modems, as supplied by the First Computer Centre, Leeds (0532 319444).

Pace Microlin FX

PACE PRICE £205.63

This tiny wonder is easily the cutest gadget I've seen in a long time. Billed as a 'pocket modem', the Pace is, for once, actually small enough to fit in a pocket. It's certainly smaller than a GameBoy. Smoothly black and decidedly Star Trek TNG looking, the effect is only spoilt when various flaps open to display standard 25way serial port connections and Yank telephone line-in-and-through sockets. Three LEDs on the top keep you informed as to current status. Power on and off is automatic. It actually turns on only when the Comms software is running.

Other nice touches include the dinky little carrying pouch and the ability to store 20 telephone numbers internally. Keeping your numbers secret is possible with integral password protection. Speedwise, the Pace is far from blistering. The data rate of 2400 bps will keep you waiting for all but the shortest downloads, although the fax speed is the standard 9600 and MNP to level 5 and v42bis modes are supported. It will Excel at quick Email jaunts, but for serious software downloads something with a great deal more is required.

Primarily designed to complement portable computers, the Pace comes with both a PSU (Power Supply Unit) and a standard 9volt battery for 'on-the-road' use. This portability is something you do pay extra for. Unless you really need it, don't let its good looks tempt you. If you do happen to have a portable, such as a trusty Z88, the Pace will allow you to sneak a quick on-line session when you visit your friend's house and as such it's in a class of its own.

75%

Supra modem 2400

SUPRA PRICE £74.99

This modem is clearly designed for the beginner, as it costs little more than a second floppy disk drive and is virtually foolproof to use. Like the entire Supra range, it's encased in a thick aluminum box capable of being trodden on, and measures about 12 by 16 cms. Connection to the Amiga's serial port is via a supplied cable and another lead and adapter takes the modem to the nearest telephone wall socket.

The First Computer Centre make it their business to supply you with all you need to get on-line, and this includes bundling some Comms software and a selection of Bulletin Boards for you to try. It will certainly take less than thirty minutes before even a complete novice has logged onto a board. For the price you pay, the specifications are acceptable if disappointing.

The data rate of 2400bps is quite slow, and if you intend to download a lot of programs from BBS systems you are strongly advised to wait until cheap rate.

However, as a first step to getting on-line, this modem is faultless. It's almost impossible to have problems working at 2400 bps, and the speed is ideal for leaving and collection small amounts of Email. The inclusion of software and all cables by First will ensure your first Comms experience is a happy one.

70%

SupraModem 2400

Supra FAX modem plus

SupraFAXModem

SUPRA PRICE £119.99

At first glance, this modem is identical in both specifications and appearance to the *Supra 2400*, but looks can be deceptive. The main difference is an inclusion of an extra LED on the front panel.

The *Supra FAX* modem must be the cheapest fax machine in the world. For not much more than £100, you get a fully compatible fax machine which can print on plain paper (assuming you have a printer that is). Most fax machines operate at 9600bps, which means it only takes a minute or so to send several pages.

You will need special software, but the facility makes this modem an attractive proposition for the home telecommuter. The 'plus' in the title presumably is a reference to the inclusion of MNP level and v32bis data compression, which theoretically push the data rate up to 9600bps. You should realise that this speed is only for uncompressed Ascii text. If the data is already compressed, as most programs on a BBS are, the rate will be a great deal slower.

As a first modem, this model can actually make more sense than the *Supra 2400*. For a little more cash, the extra features and speed are certainly worthwhile, remember that 9600 is effectively the fastest speed possible for faxes, so you could spend more on a faster modem without any noticeable benefits.

85%

CUT, TICK & POST...CUT, TICK & POST...CUT, TICK & POST

TEEPHONE 0702 466933 FAX 0702 617123

PD SOFT (CU53) 1 BRYANT AVE, SOUTHEND-ON-SEA, ESSEX, SS1 2YD

EDUCATIONAL DISKS

☐ ^+ **V13 PLAY & READ CHALLENGE (2)** Education programs for the under 7's
☐ ^+ **V546 KIDS PAINT** A painting program designed for children.
☐ ^+ **V584 FASTFACTS** Everything you ever need to know about the solar system **WORLDMAP** Produce Maps. **PLANETS**
☐ ^+ **V792 KIDS GAMES** Geography Math, Sicence and Word Games.
☐ ^+ **V793 AMIGA BEGINNER** You asked for it! Tutorial for the beginner on using your Amiga! Covers CLI & Workbench.
☐ ^+ **V824 ELEMENT v3.0** Nice interactive display of the Periodic Table
☐ ^+ **V825 WORLD DATA BANK v2.2** Using a database of coordinates of the CIA's, it plot's world map's in cylindrical or spherical projects in degrees of magnification
☐ ^+ **V843 DESERT STORM** Select Maps & info surrounding the Attack
☐ ^+ **V849 LANGUAGE TUTOR v1.0** Spanish, French, German & Italian.
☐ ^+ **V908 DPAINT TUTOR** Do you have DPaint, learn how to use it.
☐ ^+ **V927 CLI TUTOR** Helpfull program to understand how to use CLI & Shell.
☐ ^+ **V933 GCSE MATHS** Program to help with the GESE maths course
☐ ^+ **V940 MATHSADV** Simple math problems to solve. **REFLEXTEST** Tests
☐ ^+ **V944 AMIGAWORLD** Contains information about every country
☐ ^+ **V1015 JAPANESE** Help teach Japanese. Word-a-day & Vocabulary.
☐ ^+ **V1111 CHILD QUIZ** Simple Quiz game with colourful graphical pictures from ages 5 upwards Excellent little game

FULL REGISTERED VERSIONS

☐ !+ **COMPLETE A64 PACKAGE v2.0** With interface & Full Comerical software. Transfers disks from your original 64 disk drive. Full version of the program **£44.99**
☐ ^+ **CROSS SITICH** Prints out a picture in a pattern for embroidering **£16.99**
☐ ^+ **GS1 FORMULA ONE** Is a managment game on the Amiga. **£4.99**
☐ ^+ **GS2 POWERBASE** Is a database that should cater for evertones needs. Stores upto 10,000 records. **£4.99**
☐ ^+> **GS3 EARLY LEARNING MATHS** Teach young chirldren ages 5-9 **£4.99**
☐ ^+> **GS4 SPELLIE COPTER** One of the best educational games. **£4.99**
☐ ^+ **GS6 SUPER SOUND v4.22** A completly New version with loads of extra features **£4.99** or £12.99 with a full Printed *Manual* and software.

VARIOUS UTILITIES

☐ ^+ **V16 AQUARIUM** Turns your screen into an eyecatching Fish tank.
☐ ^+ **V109 PRINT STUDIO** Excellent for printing graphic pictures or text.
☐ ! - **V215 DISKMASTER v3.2** Copies files from one disk to another.
☐ ^+ **V262 DUPLICATION & BACK-UP** Superduper, Turbo copy, Sanity copy
☐ ^+ **V277 FORTRAN-77 v1.3c** Compiler, linker & run time support libs.
☐ ^+ **V298 NORTHC v1.3** Complete C language with all files needed **(2)**
☐ ^+ **V301 EYE OF THE BEHOLDER** Disk Book with Maps, Strategy & Solution.
☐ ^+ **V323 ANALTICALC SPREAD SHEET** The best spread sheet. **(2)**
☐ ^+ **V332 AMIGA PUNT PROGRAM** Predict which horse will win the race
☐ ^+ **V350 BUSINESS CARD MAKER** Design your own Business cards.
☐ ^+ **V366 600 BUSINESS LETTERS** Over 600 Standard Business letters
☐ ^+ **V390 DESK TOP PUBLISHING** Extra features, Text & Graphics Editors
☐ ^+ **V392 AMICASH BANKIN** Best bankin program that I have ever used
☐ ^+ **V394 CHEMESTETICS v2.14** Draws molecules using the calotte model.
☐ ^+ **V401 WINDOWBENCH (2)** Give your Workbench v1.3 a stunning new look and update your aging software.
☐ ^+ **V424 ANTI-FLICKER** Said to stop the flicker in High Res mode
☐ ^+ **V444 PRINTER DRIVER DISK III** Now contains instructions on how to install them. Theres about 90 drivers
☐ ^+ **V479 CHESS & UTILITIES** A collection of chess related Puzzles.
☐ ^+ **V489 AMIBASE PRO v2.0** This is most popular PD Database program.
☐ ^+ **V490 MESSY SID v2.0** Reads MS-Dos disks, Transfer any text files to & from an IBM PC, ie PC to Amiga
☐ ^+ **V523 DICE C COMPILER (2)** Matthew Dillons full featured powerful C compiler & environment system.
☐ ^+ **V536 CATALOGUE UTILITIES** A collection of utilities used to Catalog disk/ Video & Tape collections **(2)**
☐ ! - **V567 GENERATORS** Selection of utls & Printer Driver Generators.
☐ ^+ **V569 DUNGEON MAPPER v1.1** Can design maps for dungeons & Towns.
☐ ^+ **V573 FILE & HD** HDClick v2.0, File Minder, DosControl, & tools. **(2)**
☐ ^+ **V575 HOME BUSINESS** Based on word processing, Data Management, Spreadsheets, Accounts & Printing. **(6)**
☐ ^+ **V583 ICON EDITOR III v2.0** Create Icons upto 640x200. Edit or Create
☐ ^+ **V587 GELIGNITE FONTS (2)** If you want some coloued DPaint fonts.
☐ ^+ **V610 GOLF SCORES v1.84** It will record each round you play, Store it, make up an eclectic score NEW!
☐ ^+> **V611 FOOTBALL LEAGUE EDITOR v1.1** Want to update your teams league position as the results come in.
☐ ^+ **V620 ASPICE v3.2** Full featured program for electric circuit.
☐ !- **V624 NIB COPIER v2.0** Will copy in AmigaDos + special parameter copy.
☐ ^+ **V627 DPAINT FONTS No's 1-3 (3)** The latest selection Fonts far use with any IFF Painring / DTP Program.
☐ !- **V635 IBeM EMULATOR v1.5** Is a CGA Colour IBM-PC Emulator written to run on any Amiga. Shareware version
☐ ^+> **V660 HOME MANAGER** Is an addressbook, inventory database, 2-do list
☐ ^+ **V661 VERTEX** Create 3d objects without using the X, Y & Z views. Loads Sculpt 3d+
☐ ^+ **V662 DCOPY v3.1 PRO** You can select the speed of the disk drive, Copy modes, Dos, Nibcopy, Ver & safecopy (Fully updated version)
☐ ^+ **V678 DRAW MAP v4.1** You can generate world maps in detail views. 3d or 2d ☐ 2Mb **(2)** or ☐ 1Mb V263
☐ ^+ **V681 GAME TAMER v4.01** Get a hold of that extra hard game & Cheat.
☐ ^+ **V684 FONT EDITOR v1.0,** Also contains other utilities. IFF Fonts
☐ ^+ **V685 ASTRO ASTROLOGY v3.0** Best Astrology program on the Amiga
☐ ^+ **V686 MULTIDOS v1.12** After this program has been installed your Amiga drives can then read 720k IBM Disks.
☐ ^+ **V688 MAGNETIC PAGES v1.30** Creates disk based mags with graphics
☐ ^* **V690 WB 2/3 UTILITES** Contains the programs that should have been with WB 2. Take full advantage of the many NEW capabilities that are available. **(2)**
☐ ^+ **V693 HARLEQUIN VIDEO ART** A video production with backgrounds **(3)**
☐ ^+ **V698 AGRAPH v2.0** Brings the world a cheap draw Bar, Line, Area & Pie chart production/ presentation program.
☐ ^+ **V705 MED v3.21** Excellent update to the famous music program
☐ ^+ **V710 AREXX TUTORIAL** Includes several sample Arexx scripts & sample progs. ARexx comes free on all WB v2.04+ disks
☐ ^+ **V711 UNIX** Contains a working demo of *Minix (Unix)* System call compatable
☐ ^+ **V715 BIBLE** The entire text of the new Testament & Torah Old Testament **(3)**
☐ ^+ **V719 FREECOPY v1.8** Removes protected games copy protection so that the user can install them on HD.
☐ ^+ **V727 ART OF MED 2** Another excellent select of *Med* tunes.
☐ ^+ **V731 AMOSBROT v1.1a** Logistic Equation, Coast lines & trees Fractals
☐ ^+ **V733 SOFTWARE LISTER v1.6** This program is designed to keep a track of your Software collection.
☐ ^+ **V742 ONLINE v1.4** Program will allow you to find cheats within games.
☐ ^+ **F691 PROFESSIONAL C MANUAL v3.0** Is the largest collection of utilities, documents & examples for C. It consists of six manuals, with over 40 chapters **(5)**
☐ ^+ **V757 AMIGADEX v1.61** Creates a card index database system.
☐ ^+ **V758 TEXTPLUS v4.0e** Another update of this excellent Word processor program. Requires Hard drive
☐ ^+ **V759 TEXT ENGINE v4.0** Updated version of the Word processor with **AZSPELL.** Excellent spell checker
☐ ^+ **V761 A-GENE v4.18** The most popular genealogy database program.
☐ ^+ **V770 ACCOUNT MASTER v2.12** Excellent Amos written program
☐ ^* **V773 WB v2.04 WINDOWBENCH v2.0** Excellent Workbench replacement for all WB v2.04+ Users **(2)**
☐ ^+ **V777 VOICE CLI v5.5** The idea is to control the CLI with your own voice
☐ ^+ **V778 RAYSHADE v4.0** Complex Ray tracing package. 2Mb **(3)**
☐ ^+ **V782 FORMS** Create, Edit, Draw, Colour & print your own forms
☐ ^+ **V783 PROGRAMMING TOOLBOX** Many programs to help in your development efforts (most C but some in basic).
☐ ^+ **V784 AREXX (2)** disks which contain Arexx programs & examples
☐ ^+ **V786 PASCAL** This disk contains everything needed to program in Pascal. Includes a68k 68000 assembler & more
☐ ^+ **V787 PROGRAMMER TOOLS** GadTools to design your user interface to your own programs using all of Amiga DOS 2.0+s new features. Also RegTools.
☐ ^+ **V790 ANIMATION UTLS** Includes CyroUtils for splitting, combining, and creating animations from IFF picture files.
☐ ^+ **V791 DIRECTORY ULTS** Highly recommended programs which are designed to make CLI & Shell tasks virtually obsolete.
☐ ^+ **V794 GRINDER** Complete graphic conversion package that supports GIF, JPeg, Atari St (Neochrome / Degas), PCX, Targa, TIFF, Ham-E and IFF Format pics.
☐ ^+ **V799 ADVENCED UTILs** SerNet & ParNet, Connect 2 Amigas & share resources via the serial or Parallel ports. *MyMenu* WB 2.0 menus
☐ ^* **V806 WB v2.04 UTILITIES (2)** 2nd collection of WB v2.04+ utilities that take advantage of the NEW capabilities.
☐ ^+ **V811 ELECTROCAD v1.42 & PROTOYPER** Electronics drawing Programs.
☐ ^+ **V812 CANON** This disk contains Printer Drivers & Canon Studio, Gives better print output for any 9 pin printer.
☐ ^+ **V815 FILE & HD 2** DirWork v1.62 *MegaD* File copier like *Disk Master* **(2)**
☐ !- **V817 A500 PLUS EMULATOR** As it sounds will let v1.3 / v1.2 owners run WB v2.04+ software with out any need to purchase to WB v2.0+ chips.
☐ ^+ **V818 INSCRIPT v1.1** Produce video titles. IFF Pictures as back grounds
☐ ^+ **V820 BBBBS v5.7** Baud Bandit bulletin Board System Ffures include up to 99 file libraries, interface to extra devices
☐ ^+ **V821 SNOOPDOS v1.5** Monitors Dos calls to see what library, devices, fonts are required if a program will not load
☐ ^* **V822 BACKUP v2.43** A hard drive backup program that features, multi-drive support, full backup, compression.
☐ ^+ **V823 POWERPLAYER v3.4** Very powerful, user friendly module player.
☐ ^+ **V826 AHDM v3.4** Hard Drive Menu. When placed in your startup-sequence, offers a 16 page menu
☐ ^+ **V827 REPAIR-IT 2: NewZap v3.3,** Sector file editing system. **FIXDISK v1.2,** Recover as much as possible from a dele-dive disk
☐ ^+ **V841 MODULA-2** Contains modula-2 language on the Amiga.
☐ ^+ **V842 SID v2.01** Sid can be used for various operations, The best is the file copier on the Amiga.
☐ ^+ **V844 DELITRACKER v1.3** Powerful & system friendly music player. Will play over 40 difference types of modules.
☐ ^+ **V845 Q.M.J v5.31** Generate julia sets & complex Quaternion Julia slices.
☐ ^+ **V846 SCOPIOUS MAPPER** An excellent Dungeon mapping program
☐ ^+ **V847 MONEY MANAGEMENT v1.01** Home accounts which allows you to keep track of upto 12 accounts
☐ ^+ **V848 SLIDESHOW GENERATOR v3.1** Creates slideshows of pictures in various formats for the amiga.
☐ ^+ **V850 FRAC v1.1** is a graphical Role playing game creator
☐ ^+ **V856 PICTURE TOOLS** Converts Pictures to other formats and styles.
☐ ^+ **V858 MUSIC MAKERS** A selection of programs to produce your own music productions. Make your own music.
☐ ^+ **V859 AUDIO TOOLS (2)** Sound and Audio production utilities.
☐ ^+ **V861 3d DESIGNER** Graphic production utilites including CLight, DKBTrace
☐ ^+ **V865 IMAGE PROCESSORS** Contains Tools to perform a wide variety of Image Techniques (IFF)
☐ ^+ **V866 MANDEL EXPLORER (2)** This is the best collection of Fractal Generating software on the Amiga.
☐ ^+ **V869 ANIMATION ASST (2)** Will solve many of your animation problems. Includes ABridge, Players, DA, AnimTools
☐ ^+ **V871 3d HELPER** Are you starting out with 3d graphics. This is what you need
☐ ^+ **V872 ICON TOOL KIT** Just about every tool you could imagine
☐ ^+ **V873 UGFC v1.1** Will help you translate between Graphic formats
☐ ^+ **V875 SPACE** Help you study, identify the Stars & celestial objects.
☐ ^+ **V876 SYSTEM TEST v4.1** Checks & reports on your computer
☐ ^+ **V882 MAGNUM v1.4** Another excellent Disk Magazine Creator
☐ ^+ **V888 TRONI CAD v1.0** The best CAD program with power functions.
☐ ^+ **V899 ABACKUP v3.88** A Powerful backup utility that may be used for HD backup & File Archiving. **SysInfo**
☐ ^* **V900 BOOTJOB v1.0** Include functions to store, install, view or execute any bootblock. Can save BB as executable
☐ ^* **V901 FIM v2.2** IntroMaker to create you own Intros. IFF imports
☐ ^+ **V921 COMPUGRAPHIC FONTS** Will work with DPaint v4.1, ProPage3, Pagestream, Page setter & Work bench v2.04+. About 30 Fonts **(3)**
☐ ^+ **V924 PLOT MAP v0.85** An extra disk for use with Draw Map v4.0+ Will allow use of the program with 512K RAM
☐ ^+ **V925 SLAUGHTER CHEATS** Selection of WB Hacks & Cheats
☐ ^+ **V928 THE LITTLE OFFICE** One of the best disks at the present time. Has a Word Processor and others
☐ ^+ **V936 LETTERS & BOILERPLATE** Letters for you to use as your own or cut & pause into a Word Processor
☐ ^+ **V942 SCREEN BLANKERS** A disk packed with screen blankers. Includes the Twilight Zone blanker along with 10 others
☐ ^+ **V943 LYAPUNOVIA v1.5** Mind-boggingly colourful program that makes pictures from a mathematical formula. Now with AGA support
☐ ^+ **V945 PROPAGE 3 ENHANCER** Over 40 Genies for use with ProPage 3.0, including useful ones like Make Pie Chart. Also structured clipart for unique borders!
☐ ^* **V946 SYSTEM OPTIMIZER** KCommodity gives you memory meters. REorg will optimize hard / floppy disks for big speed increase. HDMem virtual memory. 2 *Meg* of HD space for 2Mb
☐ ^+ **V947 GNUPLOT** Is a command driven interactive function plotter. Creates stunning plot/graphs of mathematical functions. Requires a hard disk drive
☐ ^+ **V948 INTUITION BASED BENCHMARKS v6.0** A great package with all the popular BMs like Sieve, Dhrystone, Savage, IMath & Matrix.
☐ ^+ **V949 TESTS** Contains all of the classic speed tests and system checks we could find. Includes CPU Speed, A full featured system diagnostic tool & more
☐ ^+ **V951 PROTECTION** Is a collection of utilities aimed to protect your data and protect autobooting HDs & Document File. Lock your data files with a password
☐ ^+ **V952 x-BENCH v1.0 (2)** Complete solution to the replacement Workbench. Contains LastHope, View, Virus Checker, Power packer & DCopy2
☐ ^+ **V957 TACKS v1.2** Help you create self-booting animation disks.
☐ ^+ **V958 CLUB LEAGUE** Is a utility that will allows you to edit and keep track of your divisons/leaggue stats.
☐ ^+ **V959 AMIGA_E v2.1b** Specific compiler. E is a powerful and flexible procedural programming language
☐ ^* **V962 SUPER KILLERS v3.0 (2)** The latest Virus Killers like BootX v5.23a, which can save any bootblock and install it on another disk as well as check for viruses. VC v6.28 and VirusZ v3.06
☐ ^* **V976 WB v2.04 UTILITIES 6** Next collection of WB v2.04+ utilities.
☐ ^+ **V977 FILE & HD No 5-6** Next Excellent collect of HD utilities. **(2)**
☐ ^+ **V979 NCOMM v3.0** Is a communications program based on Comm v1.34 with lots of very nice enhancements
☐ ^* **V980 KICK v1.3** Will down grade A500+, A600, A1200 users machines to run software that would NOT normaly work. Turns them into a Workbench 1.3.
☐ ^+ **V983 MEGA CHEATS v3.0c** Now contains over 500 cheats.
☐ ^+ **V984 PROTRACKER v3.0a** The latest updated version from Norway. Various bugs fixed and 70 new features
☐ ^+ **V988 ZIPBENCH v4.0** Another Workbench replacemant but contains excellent utilities like, powerpacker v2.2a, powerplayer, SysInfo, VirusX, Archiver, b-Base, BootIntro, Degrader, Fist Aid Box **(2)**
☐ ^+ **V994 THE MONEY PROGRAM v1.5** Features include upto a maxium of 60 accounts, upto 50 direct paymenys,
☐ ^+ **V1000 GRAPHPRO v1.0** Written with Amos pro by David Jordan. Basically takes a set of data, plots them on a graph.
☐ ^+ **V1001 VMORPH v2.21** Will allow you to create smooth morphs/warps between two different images over a period of frames to create an animation.
☐ ^+ **V1002 RAMOS PRO** If you have Amos Pro then this disk will make your programs Boot without the program disk
☐ ^* **V1003 NICKPREFS** Is an enhancement to WB 2/3 which adds 3 new preferences WBPicture, BuzyPionter & Floppy.
☐ ^^ **V1005 WORKBENCH 3.0 UTLS** Contains the fist batch of A1200 and A4000/030/040 Utility programs
☐ ^+ **V1009 TURBO TEXT v1.1** Excellent Word Processor. Very impressive version
☐ ^+ **V1013 POOLS PREDICTION** A helping hand with the Pools.
☐ ^+ **V1016 OCTAMED v2.0** Music editor which was designed for making music for programs. **(FULL & NEW VERSION)**
☐ ^* **V1017 POST v1.86** An excellent Postscript interpreter for the Amiga which implements the full Adobe language **(3)**
☐ ^^ **V1021 WB 3 SCREENS** Enhance your Workbench disks backgrounds with theses nice full coloured pictures
☐ ^+ **V1022 LITTLE TRAVELLER v1.1** Shows a world map & you can select any country for travel information, Zooms up another close up map with more detail.
☐ ^+ **V1023 QUIZ** Contains Questions & Answers with the option to add
☐ ^^ **V1024 MANDELSQUARE v1.6** Generate enhanced AGA *Mandelbrot* set images, requires numerical coprocessor. You can create 256 colour coloured pics
☐ ^* **V1025 TERM v3.1** Comm prgroam, Xpr transfer, filetype ident after download, cut & paste, point-and-click, auto upload/ download, VT102/VT220, Ansi emulation, powerfull phone book & AGA support **(3)**
☐ ^* **V1034 ADM v1.01** Flexible address database with loads of great features.
☐ ^+ **V1035 FES BASIC** Just in time for all the new machines which do not have Basic with thier machines any more.
☐ ^^ **V1037 (AGA) A1200 WB HACKS** An excellent collection of Utilities & Hacks
☐ ^+ **V1038 AMOS PRO UPDATER v1.11** 1st Update to the Amos Professional
☐ ^^ **V1039 (AGA) WB3.0 INSTALL** If you need to install your A1200 HD then you need this. Also see V1075
☐ ^+ **V1040 bBASEIII v1.3** An easy to use, versatile, yet full featured database. Greatly enhanced successor to bBASE II.
☐ ^+ **V1041 DIGITAL BREADBOARD** Full featured digital circuit simulator
☐ ^* **V1043 SUPER DARK v1.5** A screen blanker like After dark from the MAC theres about 30 blankers.
☐ ^+ **V1044 FANCY PRINTING DISK** Contains Banner, Graph Paper v1.2 and Disk Print v3.59.
☐ ^+ **V1045 uDRAW v1.0** Provides a mechanism for the rabid drawing of schematic diagrams. Bitmap oriented
☐ ^+ **V1046 THE XI RAVE SAMPLES** Grarett Watt's IFF 808 State samples
☐ ^+ **V1048 HAM-8 VISTAS (2)** Collection of Ham-8 Vista drawings
☐ ^+ **V1051 EASY CALC v1.0** A spread sheet designed to be both easy to use and fast. Built in excellent help system.
☐ ^+ **V1054 ADVANCED UTLS 2** Compress Disk doubles the capacity of your D on the fly with compressions. Also DiskOptimizer, SCSI Mount and more.
☐ ^* **V1055 PARBENCH** All the software you need to hookup 2 Amiga's or CDTV's.
☐ ^+ **V1056 DEVELOPER** Contains the official Commodore developers Kit for the Amiga Guide & install utilities.
☐ ^+ **V1057 EDPLAYER** Music MOD player that looks, acts & plays like a CD
☐ ^+ **V1058 3D GRAPHICS** Several 3d moddeling/ray tracing programs
☐ ^+ **V1059 GRAPHICS** Create stunning graphical images. *MPath* creates swirling galaxy images. Roses, Rayshade
☐ ^+ **V1060 CIRCUIT BOARD DESIGN** Includes mCAD v1.26 and several terrific routines for the electronic enthusiast
☐ ^+ **V1061 DISK UTLS** Several highly recommended programs for performing file hard drive backup, file recovery, disk track recovery, and forced disk validatuion
☐ ^+ **V1062 DESKTOP PUB** Transfers Macintosh screen fonts. AFM metric files to Amiga fonts/PPage .metric files.
☐ ^+ **V1063 RIPPERS, STRIPPERS & BEATS** For the music enthusiast, designed to strip music from your favorite games
☐ ^+ **V1067 3D OBJECTS 3** About 20 objects in Sculpt / Turbosilver format
☐ ^+ **V1069 PRINTER DRIVERS 5** Desk-jet 550c, 500, 500c, Ricoh HP1200, Canon BJ300, 130, LPB, 10e, PJ1080a HP Paintjet.
☐ ^^ **V1070 (AGA) UTLs 2** 256 colour icon editor, Plamsa256, QuickGrab v1.1
☐ ^^ **V1071 (AGA) MSM v1.8** Martins system monitor for programmers
☐ ^^ **V1072 (AGA) WINBLENDER v39.28** Create excellent/stunning AGA fractals. Also contains 68030/040/FPU versions.
☐ ^+ **V1073 FT-X ACCOUNTS v2.01** Was written as there are not ready any other good account packages.
☐ ^^ **V1074 (AGA) UTLs 3** Collection of AGA Based utilities. Includes Kill AGA Which allows you to run old badly written programs incluing demos & some games
☐ ^* **V1077 GENEALOGIST v3.04** Is a specialized database for keeping track of genealogical information. Full featured & a wide selection of features to use.
☐ ^+ **V1078 PC TASK v2.03** Software IBM-PC emulator. It allows you to run the majority of PC software with no additional hardware. Now supports VGA, EGA, CGA and MDA. This is a demonstration version.
☐ ^+ **V1079 KEYBOARD TRAINER v1.1** Best Public Domain Typing Tutor An excellent New program / Amiga
☐ ^+ **V1081 REPAIR-IT 3** Contains a selection of Disk, Hard Drive repairing and file saving utilities for the Amiga.
☐ ^+ **V1083 CROSS v5.1** Is a program that creates crossword puzzles for you
☐ ^+ **V1084 SPECTRUM EMULATOR v1.6 (2)** This is the best & latest version of the most popular emulator for the Amiga. There is an 020/030 versions now on the disk which enhance the games on disk.
☐ ^+ **V1087 STOCK ANALYST** Is a technical analysis and securities tracking program which calculates when to buy and sell shares.
☐ ^* **V1088 WB 2.0+ UTLS** Contains ChkFrag, DFC5, FastDos, Formatter, No-Click, UnDelete, KeyMac, *MegaWB*, MR, 1 Plane, OpenL, ResumeMaker & StarBlank.
☐ ^+ **V1089 STATRAM** Recoverable RAM based on VD0 but 5 times faster.
☐ ^^ **V1090 ANDYS (AGA) UTLs** Another selection of utilities for A1200 owners also encludes FakeMem, KillAGA, AGATest, Degrader and much more.
☐ ^+ **V1091 ASTRONOMY v2.0** A menu driven astronomy program that calculatoes information about the Sun, Moon, Planets and Constellations. Help Disk.
☐ ^+ **V1092 HEROQUEST AID** Will aid solo AD&D players who do not have a Dungeon master at the present time. It takes over the DMs role. Good or what
☐ ^+ **V1093 PARNET SET-UP (2)** A two way network file system between two parallel ports, establish via two amigas
☐ ^* **V1095 DEGRADERS** If you have trouble running software on an A1200 or A4000/030/040 give this disk a try it will emulate the basic 1.3 rom better that any other software on the Amiga at present
☐ ^+ **V1096 MING SHU CHINESE ASTROLOGY** Will create a horoscope in seconds not hours. the complete gid.
☐ ^+ **V1097 TITANIC CHEATS v1.40** Contains 950k of raw data which is just a whisker under 600 games Well presented
☐ ^+ **V1101 RJ UTLs** This disk contains helpful image processing and painting programs. Like Perfect Paint v1.34, Image Workshop v1.3, an IFF Manipulator
☐ ! * **V1102 DT UTLs** Contains Border for WB v2.04+ machines, MakeKickFile, SKick v3.34, is a replacement for kick-it, Z Kick and LKick kickers. It will softkick any other version of kickstart into ram.
☐ ^+ **V1103 TEK-ATAK MODULES** An excellent helping of wonderful music for your own productions or to listen to.
☐ ^* **V1104 COLOURED ICONS** Transfer your disks into colouful well presented works of art with this database.
☐ ^+ **V1105 VIEW TOOLS** Contains Convert, ViewTree, a Famil tree easy to use database progra. ViewPhone, an British telephone storage database. ViewDisk, is a small disk catalogue utility.
☐ ^+ **V1106 MAJOR LEAGUE** Allows you to keep track of your favorite teams and there results. Dataindex v2.4
☐ ^+ **V1107 BLITZ BASIC2** Comprises of a fully integrated editor/compiler environment for the serious Amiga programmer
☐ ^+ **V1109 STAR VIEW** Is designed to show graphicallythe positions of the stars and planets from any point on Earth.
☐ ^+ **V1110 FORCASTER v2.01b** Is a Horse Racing prediction program which uses statistical analysis of *Major* factors.
☐ ^+ **V1112 CHEQUE BOOK v2.5** Record your bank and other transactions.
☐ ^+ **V1114 PRINT LABELs** DocDump2.1, Envelope Print v1.2, Inlay Maker v1.4, *MC* master v1.1, Banner Press, Label Print v3.5
☐ ^+ **V1116 POOLS WIZARD JNR** Dead-icated Amiga Football Pools predicter.
☐ ^+ **V1117 x-BEAT v1.2** A good program for drum sequencing 16 bass.
☐ ^+ **V1119 MUSIC BASE v1.0** A versatile a east to use musical database.
☐ ^* **V1121 SHAYERA'S TOOLS** Contains IFF2RAW, *MatchRun*, NoClick, PlayMelon, SetStar, TrackPlayer v1.92
☐ ^+ **V1123 DIGITAL DREAMS UTLs** Contains Trax, ProMax, trax Map, Titans cruncher, Protect, VC, Scrabble II, Boot Block Champ II and File Protect
☐ ^+ **V1124 FIRST ALERT VIRUS** BootX, EVN v2.22, LVD v1.75, *MVK* v2.2, No Saddam, SnapShot, VC, Virus X, Virus Z.
☐ ^+ **V1125 LEMMINGS 2 INSTALL** This disk will install Lemmings 2 to your hard drive. 1Mb Chip RAM + 512k RAM
☐ ^+ **V1129 RED DRAWF TRIVIA** The ultimate Quiz and answers game.
☐ ^+ **V1130 COMMUNICATE v1.2** A helping tool for learning one of the eight formats of cummunications or languages
☐ ^+ **V1131 COPPIERS UNLIMITED** AContains DCopy, FastEm, FastLightning, *Maverick, Mirror,* Nib, Rattle, Raw, Sanity, Super Duper and Tetracopy.
☐ ^+ **V1133 NUMPAD v37.3** Emulates a numeric keypad on some Amiga Keys.
☐ ^* **V1134 TOOLMANAGER v2.1 (2)** Includes the ability to add menus to your Tools menu. add WB icons or Windows.
☐ ^* **V1136 DISK UTLs 2** Copy_C A disk tool for making backup copies, form-atting ect. DiskMate A disk utl with multi drivedisk copier ect. DiskSalv v2.0 Disk repair, salvage and undelete utl. HDClick, a hard disk menu & workbench tool.
☐ ^^ **V1137 (AGA) UTLs 4** AGATest, BBlank, CheckAGA, CycletoMenu, Doublex, Force VGA, GIF Datatype, PKludge, PPShow, Rend24, ViewTek & Verlauf
☐ ^^ **V1138 (AGA) UTLs 5** Degrader, Pov-Ray, AmigaToDouble, CardMemLast, Palette, Promotor, RomTagMem.
☐ ^^ **V1139 (AGA) UTLs 6** A4091Patch, Alert Timer, Bestid, Clouds, Ham8 JPEG, NewPOP, NTSC4NTSC, PatchPointer, Plasma PCX Data type & Screen *Mode* changer.

AMIGA GAMES

☐ ! - **1073 TETRIS ORIGINAL** This is the closest game to the original tetris
☐ ^+ **1420 OTRIS** If you want a1 or 2 player Tetris this has to be 1 of them.
☐ ^+ **1749 SCRAMBLE** 'The Original' Remember that old classic game from the arcades
☐ ^+ **1977 POM POM GUNNER** Shoot down world war II air planes in this Operation Wolf
☐ ! - **2018 JETMAN** Spectrum classic converted to the amiga, with all the original sounds.
☐ ^+ **2022 SEA LANCE** The first Silent Service type sub war game on PD
☐ ^+ **2054 ATIC ATAC** A rendition of the game from the original Spectrum
☐ ^+ **2164 DUNGEON ON NADROJ** This is the best D&D adventure type game. Load Wb
☐ ^+ **2220 STRATEGIC GAMES** Eternal Rome, Lords of Hosts, In Moonshine
☐ ^+ **2221 MIND GAMES** 21 of the best games to challenge your mind
☐ ^+ **2272 BLACK JACK LAB** Play all the popular versions of Pontoon
☐ ^+ **2278 CARD SHARP** A professionally presented selection of solitaire games.
☐ ^+ **2280 DIPLOMACY** Classic strategy game loosely based on World War 1. 2Mb
☐ ^+ **2411 TOTAL WAR** Strategy world conquest type game. 1 or more players
☐ ^+ **2432 GOLDEN OLDIES** Galaga, Galaxian, Space invaders, Asteroids, Batty & Missile Command
☐ ^+> **2447 COINDROP** Fruit Machine simulator with various gamble modes.
☐ ! - **2448 CRAZY SUE** Another first rate cute school girl platform game.
☐ ^+> **2480 FRUIT MACHINE 2** As near as poss to the Arcade machines
☐ ^+ **2485 IRONCLADS** Updated Strategic War Game which is heavy on your mind (2)
☐ ^+ **2491 LEGEND OF LOTHIAN v1.02** An excellent adventure game in the vein of Ultima.
☐ ^+ **2498 AMOS CRICKET** Is an excellent arcade cricket simulator with nice graphics.
☐ ^+ **2614 TETREN** Is a 1 or 2 player Tetris game. The 2 player game is Head 2 Head.
☐ ^+ **2617 GOLDEN OLDIES 2:** Croak, is a 1 or 2 player Frogger. BiPlanes is 1 of the most additive games we have played here. Trail-Blazer, as the C64 Classic. Scramble Shootemup
☐ ^+ **2620 DR MARIO** You must move coloured pills down the screen. 3 in a row go's
☐ ^+ **2621 ETERNAL ROME** Start the Roman Empire from 32BC. Build fleets, armies & attack
☐ ^+ **2622 DONKEY KONG** Original platform game in which you must rescue the girl
☐ ^+ **2676 MORIA v5.4** Loads of new features, better graphics, larger dungeons, screen updates, overview of dungeon's map
☐ ^+ **2710 CLASH OF THE EMPIRES (2) v2.1** Strategical War game By T.A.Sear
☐ ^+ **2724 NEIGHBOURS** This is the best graphical adventure game to date (2)
☐ ! + **2738 AIR TRAFFIC CONTROL** Try to guide upto 100 planes into the AirPort
☐ ^+ **2775 ROULETE ROYAL** Why not do some gamble with chips at the casio
☐ ! + **2802 CARD-O-RAMA** Sea haven, Crib Klondike, Black-jack, Spades, Street
☐ ^ + **2825 ALL ROUNDER** A Cricket simulation with great graphics & play
☐ ^+ **2842 CRAZY SUE II** Sequal to the all time best selling PD platform game
☐ ^+ **2854 SPACE INVAIDERS II** A revised old classic Space Invaders game
☐ ^+ **2863 FIGHTING WARRIORS** A karate combat fighting contest game.
☐ ^+ **2932 NUMERIX** Enjoy puzzles / Tetris then this is a must. You have a scrabble board & you must place tetris blocks to get points.
☐ ^+ **2941 EXTREME VIOLENCE** Scrolls around much bigger than Smash TV
☐ ^+ **2987 BOMB JACKY** A conversion as the original Bomb Jack, It's as the best yet
☐ ^+ **2988 BALDERS GROVE** Its here Boulder dash with a selection of levels that work fully
☐ ^^ **3023 UCHESS (AGA)** Do you love chess then try this. 4Mb & WB 3.0
☐ ^+ **3037 SSW** Is a game for 2 based on Space Wars but with many extra features.
☐ ^+ **3038 TANK HUNTER** A 2 player Tank Attack game with various levels
☐ ^+ **3039 ASTEROIDS II v0.85** This is the best version of Asteroids i have ever seen, If you like Asteroids games then this is for you
☐ ^^ **3040 TETRIS (AGA)** If you like tetris, you need this disk. AGA graphics
☐ ^+ **3075 18 HOLE GOLF (2)** The first excellent golf game. Select speed & power
☐ ^+ **3162 SON OF BLAGGER** This is a classic (64/Spectrum) platform conversion Can you remember how active it is to play
☐ ^+ **3214 UNIV CONQ** A strategy game where two human players battle for control of the universe. Status information is continually updated to allow the player to concentrate on strategy. Includes digitized pictures and sound
☐ ^+ **3234 SYSTEM DEFENDER** If Defender is the name of the game then this is the game for you, in true defender style it retains all features
☐ ^ + **3235 ALIEN BASH** The game is set inside a prison for the galaxys mentally unstable, you have been imprisoned there along with a bunch of your mates. Rescue your friends by shooting
☐ ^ + **3237 SKIDMARKS** Racing game in which you skid around a nice track and win the race.
☐ ^+ **3252 BONDMINE 12** Well produced game in the vain of the classic Boulder Dash games
☐ ^+ **3253 OPERATION METEOR** This game is set in 3d graphics in which you must travel around traped in this graphic stunning adventure.
☐ ^- **3257 SUITCASE (2)** The best adventure on the amiga to date. Excellent
☐ ^+ **3265 WIBBLE WORLD GIGGY** Wibble World of Giggle Mania hits town Yes you can enjoy the trills of controlling an egg shaped character for free. Solve puzzles avoid the monsters
☐ ^+ **3269 BRAINBOW** Is an original board game, which will have you taxing your brains for hours. Rather like a version of the pile-up Scrabble
☐ ^+ **3280 STRIKEBALL** Is a version of baseball with a few rule changes. When the game commences you will see a normal baseball pitch & players positioned as in baseball
☐ ^+ **3283 NECESSARY ROUGHNESS (2)** Puts you in charge of a team of your choise and lets you play a computer team, again of your choise. As headcoach you will have to call the plays that you think will be most effective to the game. You will then be able to see the action, followed by a breif summary of what you have just seen.
☐ ^+ **3285 THE ENTITY v1.1** You play the role or I should say control the stix and you're beinginvaded by the Entity. You are enclosed inside an electrofeid which must not be touch.
☐ ^+ **3286 AIR HOCKEY** Is a bat and ball game based on air hockey from the amusement arcades Its a basic game for 2 players.
☐ ^* **3287 ROAD TO HELL (2Mb)** Is an overhead view driving game like Hotrod and super sprint. It requires skill and coordination for success. The aim of the aim of the game is to win the gold in the Championship by making more money that your opponent. Theres a helping extra which can be bought from the shop like enhancedtypes, Better Engines, Rockets, Smoke screens ect.
^+ **3310 STARBASE 13 (2)** Is a graphical adventure, simular in style to monkey island or Operation Stealth. The controls and what they do are fairly obvious

STAR TREK + SI-FI

☐ ^ + ... **AT05 KLINGON D7 CRUISER** fires torpedoes while passing by **NCC-1864**
☐ ^ + ... **AT10 ENTERPRICES** Leaves the Star station dock. **NCC 1701-A** classic original
☐ ^ + ... **AT22 APPROACHING VESSELS**
☐ ^ + ... **AT23 STAR TREK FLEET MANEUVER**
☐ ^ + ... **AT33 THE PROBE II & BRID OF PREY**
☐ ^ + ... **AT34 LEAVING SPACE OFFICE** Docking, Attack mode, Bird of Prey Scout attacking.
☐ ^ + ... **1060 STAR TREK *: TNG** Game
☐ ^ + ... **1081 ULTIMATE STAR TREK (2)** Game by Tobias Richter. Now in English
☐ ^ + ... **2222 STAR TREK TNG** This is the latest quiz game based on the T.N.G **(2)**
☐ ! - .... **2501 STARTREK** / Jimbo Barber **(2) 2dd**
☐ ^ + ... **2503 STARTREK** Eric Gustafson **(3) 2dd**
☐ ^ + ... **2926 STAR TREK THEMES! (2)** The original sampled version of the Star Trek themes.
☐ ^ + ... **2879 CULT TV II (2)** This volume features 6 more cult shows from the 60s & early 70s include complete Episode Guides, indepth backgroud guides, seasons listings, cast, Credits
☐ ^ + ... **3108 STAR TREK: DEEP SPACE 9 SLIDES**

☐ Star Trek / Wars Video Tape 25Min long Tobias Richter 24bit ray traced animation which took 6 weeks to produce. (VHS Format) £11.99

Code Numbers

+	Works with Workbench 2.0
*	Workbench 2.0+ Only
^	Works with Workbench 3.0
^^	Workbench 3.0+ Only
>	Not A600 Machines
-	Not A500 or A600 Machines
!	Not Workbench 3.0
??	Requires ?? Amount of disks
??Mb	Requires ?? Amount of memory

NEW DEMOS

☐ ^+ 3366	SOME DEMO / LEMON
☐ !+ 3338	AQUARIUM MEGA DEMO
☐ ^+ 3354	FAIRLIGHT RAVE DEMO
☐ ^+ 3290	GRAPEVINE 16 (3) £4.00
☐ ^^ 3212	(AGA) NIGHT BREED SLIDES (2)
☐ ^+ 3136	KEFRENS DESERT DREAM (2)
☐ ^+ 3139	SCOOPEX 2 UNLIMITED (2)
☐ ^^ 3063	(AGA) HOIS MEGA DEMO
☐ ^+ 2921	STATE OF THE ARTS
☐ ^* 2815	LAWNMOWER MAN (2)
☐ ^+ 2858	JESUS ON E'S / LSD (2)

NEW! For 1993 CD4: Aminet CDROM (£24.99 + £1.00 P&P) Just Released!

The Aminet CDROM contains thousands of Amiga programs from the Aminet Internet Archive. This disc contains nearly 600 megabytes of software. The thousands of applications include GNU programs such as the GNU ANSI C/C++ compiler, the GDB symbolic debugger, GNU Emacs, the Ghostscript previewer, and GNU Chess. There is a huge selection of sound files, and utilities to play them, including Noisetracker and MED modules. This disc contains hundreds of games, including educational games, video and arcade games, strategy games, war games, card games, and word games.
The Aminet collection is global in scope, containing many programs from North America, Europe, and elsewhere. There is a huge library of programming tools, technical documents and other software for developers. This CDROM contains hundreds of demos of commercial software, so you can try before you buy.
This disc contains tons of source code, including the entire comp.sources. amiga archive, which is an invaluable resource for any programmer. Most of the source is C. The Amiga implementation of the TeX typesetting program is included, with MetaFONT and dvi filters. There are dozens of business programs. There are hundreds of images, animation and graphics programs. The disk contains many modem communication programs and BBS software.
The Aminet CDROM is in ISO-9960 format, so you can read this disc from nearly any system, including Amiga and IBM PC. BBS index files are included for popular MSDOS BBS's. This disc is brand new in 1993. Also contains Workbench 2 and Workbench 3.0 software.

CD ROM, CD ROM, CD ROM, CD ROM, CD ROM, CD ROM, CD ROM, CD ROM

ORDERING BY POST Please tick the boxes to the left of the disk numbers with a coloured pen, Hi-Lighter or just outline the disk (s) you want to order. After selecting your order please fill in your Personal details on the order form provided. CUT OUT or Photocopy this advert and Post to the Address above. Hand written orders are also acepted. Cheques & Postal orders make payable to: PD-SOFT. Ordered before please tick the Account box or just fill in your number which was on the previous delivery note.

COLLECTING DISKS You can now collect any disks at our office address 6-8 Durham Road, Southend-On-Sea, ESSEX, SS1 2YD
EEC (NON UK) When ordering there is a min order of 5 disks please add 20% for Airmail postage. Eurocheques are acepted.
INTERNATION ORDERS Please add 20% to your order's total (Min £2.00) to cover Air Mail postage. Cheques must be drawn on U.K. Banks. No postal orders

ACCESSORIES ☐ MOUSE PAD **£3.49**
DUST COVERS £4.49 ☐ A500 ☐ A600
☐ A1200 **£4.99** ☐ LC10 ☐ LC24/10
☐ 3.5 DISK CLEANING KIT **£3.49**
DISK LABELS 3p Each / Min 50 or
☐ £11.99 for 1000. Which Includes P&P
DISK BOXES ☐ 40 **£5.49** ☐ 80 **£8.99**
CATALOGUE DISKS (3) 1Mb ☐ 2Mb+ ☐ **£2.50**

PRICES ARE PER DISK 1 DISK **£3.00** 2-5 DISKS **£2.75** 6-10 DISKS **£2.50** 11-20 DISKS **£2.00** 21-50 DISKS **£1.75** 51+ DISKS **£1.50**

Your Name ________ A/c No ________
Address ________
____
Post Code ________ Telephone ________
Card Card No ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ Expiry Date ☐☐
Signature ________ I enclose cheque/PO for £ ________

Ameagre Prices for Amiga Users

Games

HUNDREDS MORE TITLES IN STOCK

1869 (1MB)	21.95
1869 (AMIGA 1200) (1MB)	21.95
3D CONSTRUCTION KIT	24.95
A-TRAIN (1MB)	24.95
ABANDONED PLACES 2 (1MB NOT1200)	23.95
ABANDONES PLACES 2 - A1200	24.95
ACTION SPORT (COMP)	21.95
ADRENALYN	6.96
AIR BUCKS V1.2 (1MB)	21.95
AIR BUCKS V1.2 - A1200 (1MB)	24.95
AIR SEA SUPREMACY (COMP) (NOT1200)	22.95
AIR SUPPORT	17.95
AKIRA	20.95
ALIEN 3 (1MB)	21.95
ALIEN BREED - SPECIAL EDITION '92 (1MB)	8.95
ALIEN BREED 2 (1MB)	19.95
ALIEN BREED 2 (AMIGA 1200)	21.95
ALLO ALLO	18.75
AMOS PROFESSIONAL (1MB)	37.95
AMOS PROFESSIONAL COMPILER (1MB)	24.95
ANCIENT ART OF WAR IN THE SKIES (1MB)	24.95
APACHE	6.96
APOCALYPSE	18.95
ARABIAN NIGHTS (1MB)	18.95
ARABIAN NIGHTS (AMIGA 1200)	21.95
ARKANOID II - REVENGE OF DOH	6.96
ARMOUR GEDDON 2	21.95
ARSENAL - THE COMPUTER GAME	18.95
ASSASSIN REMIX (1MB)	8.95
ATAC (1MB)	24.95
ATOMINO	9.95
B-17 FLYING FORTRESS (1MB)	24.95
BAAL	7.95
BALLISTIX	7.95
BARDS TALE 3	8.95
BARDS TALE CONSTRUCTION KIT (1MB)	21.95
BATMAN - THE MOVIE	6.96
BATTLE CHESS	8.95
BATTLE ISLE '93	18.95
BATTLE TOADS	18.95
BIG RUN	15.96
BITMAP BROTHERS - VOLUME 1 (NOT600)	18.95
BLADE OF DESTINY (1MB)	29.95
BLASTAR (1MB)	18.95
BLOB (1MB)	18.95
BODY BLOWS (1MB)	19.95
BODY BLOWS (AMIGA 1200)	21.95
BODY BLOWS GALACTIC (1MB)	19.95
BODY BLOWS GALACTIC (AMIGA 1200)	21.95
BONANZA BROTHERS	15.96
BOROBODUR	9.95
BOSTON BOMB CLUB	7.95
BRIDES OF DRACULA	15.96
BUBBLE BOBBLE (NOT1200) (NOT600)	6.96
BUGS BUNNY	6.96
BURNING RUBBER (1MB)	18.95
BURNING RUBBER (A1200)	18.95
CAESAR (1MB NOT1200)	21.95
CAESAR DELUXE (1MB)	21.95
CAMPAIGN	24.95
CAMPAIGN 2 (1MB)	24.95
CAPTIVE 2	22.95
CARDIAXX	9.95
CARRIER COMMAND (NOT1200)	7.95
CASTLES 2 - A1200	24.95
CATCH 'EM	13.95
CENTURION	8.95
CHAMPIONSHIP MANAGER '93 (1MB)	18.95
CHAOS ENGINE (1MB)	18.95
CHASE HQ II	7.95
CHESS CHAMPION 2175	15.75
CHESSMASTER 2100 (1MB)	12.95
CHUCK ROCK	10.95
CHUCK ROCK 2 - SON OF CHUCK (1MB)	18.95
CIVILIZATION (1MB)	24.95
COMBAT AIR PATROL (1MB)	21.95
COMBAT CLASSICS (1MB)	21.95
CONTRAPTIONS	12.95
COUNT DUCKULA	6.96
COUNT DUCKULA 2	6.96
CRAZY SEASONS	18.95
CREEPERS	21.95
CRYSTAL KINGDOM DIZZY (NOT1200)	10.50
CURSE OF ENCHANTIA (1MB)	24.95
CYBERBLAST	15.75
CYBERSPACE (1MB)	24.95
DALEK ATTACK	13.95
DARK QUEEN OF KRYNN (1MB)	24.75
DAS BOOT	12.95
DENNIS	18.95
DENNIS (AMIGA 1200)	20.95
DESERT STRIKE	21.95
DEVIOUS DESIGNS	9.95
DIZZY COLLECTION	18.75
DOG FIGHT (1MB)	24.95
DONK	12.95
DREADNOUGHTS	25.99
DREADNOUGHTS - BISMARCK	12.95
DREADNOUGHTS - IRONCLADS	12.95
DREAMWEB (1MB)	24.95
DUNE II (1MB)	22.95
DYNA BLASTER (NOT1200)	22.95
EASY AMOS (1MB)	24.95
ELITE II - FRONTIER	29.95
ERIK	6.96
EUROPEAN CHAMPIONS	18.95
EUROPEAN CHAMPIONSHIPS 1992	13.95
F-16 COMBAT PILOT (NOT1200)	7.95
F17 CHALLENGE (1MB)	10.95
FALCON	7.95
FALCON - COUNTERSTRIKE DATA DISK	7.95
FALCON - FIREFIGHT DATA DISK	7.95
FANTASTIC WORLDS (COMP) (NOT1200)	25.99
FATAL STROKES	21.95
FINAL COUNTDOWN	6.96
FIRE HAWK	15.75
FIRST DIVISION MANAGER (NOT600)	6.96
FLASHBACK (1MB)	22.95
FOOTBALL DIRECTOR 2 (1MB)	7.95
FOOTBALL MANAGER 3	18.95
FORMULA 1 GRAND PRIX (1MB)	24.95
GALACTIC WARRIOR RATS	7.95
GAUNTLET II	6.96
GLOBAL GLADIATORS (1MB)	22.95
GNOME ALONE	18.95
GOAL (1MB)	22.95
GOBLIINS 2 (1MB)	21.95
GRAHAM GOOCH WLD CLASS CRICKET (1MB)	21.95
GULP	21.95
GUNSHIP 2000 (1MB)	24.95
HAGAR THE HORRIBLE	15.96
HARDBALL	7.95
HEROQUEST	7.95
HEROQUEST 2	18.95
HIRED GUNS	21.95
HISTORY LINE (1914-1918) (1MB)	24.95
HOI	14.95
HOME ACCOUNTS 2	29.95
HUCKLEBERRY HOUND	7.95
HUMANS - Jurassic Levels (Data Disk) (NOT1200)	10.50
HUMANS - Jurassic Levels (Stand-alone)	21.95
IK+	6.96
INDIANA JONES & FATE ATL. (ACT) (1MB)	18.95
INDIANA JONES & FATE ATL. (ADV) (1MB)	27.95
INDIANA JONES & L. CRUSADE (ADV)	12.95
INTERNATIONAL 5 A SIDE	6.96
INTERNATIONAL GOLF	6.96
INTERNATIONAL OPEN GOLF (1MB)	18.95
INTERNATIONAL OPEN GOLF (AMIGA 1200)	18.95
ISHAR 2 (1MB)	21.95
JAMES POND	6.96
JIM POWER	15.96
JOHN MADDEN'S FOOTBALL	18.95
JURASSIC PARK (1MB)	18.95
JURASSIC PARK (A1200)	20.95
KEYS OF MARAMON	9.95
KGB (1MB)	22.95
KICK OFF II (1 MEG)	18.95
KID PIX (NOT1200)	18.95
KILLING MACHINE	6.96
KINGDOMS OF GERMANY	21.95
KNIGHTS OF THE SKY (1MB)	24.95
LEGENDS	21.95
LEMMINGS 2 (1MB NOT1500)	21.95
LINKS - FIRESTONE	14.95
LIONHEART (1MB)	20.95
LOMBARD RAC RALLY	6.96
LOST VIKINGS	21.95
LOTUS III - THE ULTIMATE CHALLENGE (1MB)	18.95
LOTUS TURBO CHALLENGE II	7.95
MAELSTROM	24.95
MANCHESTER UNITED - PREMIER LEAGUE	21.95
MATRIX MARAUDERS	7.95
MAVIS BEACON TEACHES TYPING V.2 (1MB)	21.95
MEAN 18	7.95
MEAN ARENAS	18.95
MERCENARY 3	14.95
MICRO MACHINES	15.75
MICROPROSE GOLF (1MB)	24.95
MORPH (1MB NOT1200)	18.95
MORPH (AMIGA 1200)	18.95
MR NUTZ (AMIGA 1200)	20.95
NAVY MOVES	6.96
NICK FALDOS CHAMPIONSHIP GOLF (1MB)	24.95
NIPPON SAFES INC	21.95
NODDY'S BIG ADVENTURE	18.75
NODDYS PLAYTIME (1MB)	18.75
NORTH & SOUTH	6.96
OMAR SHARIF'S BRIDGE (1MB)	24.95
ONE STEP BEYOND	15.75
OPERATION HARRIER	7.95
OUTLANDER	22.95
OVER THE NET	9.95
OVERDRIVE (1MB)	19.95
PANG (NOT600)	6.96
PANZA KICK BOXING	7.95
PARASOL STARS (1MB)	13.50
PEN PAL	39.95
PERFECT GENERAL (1MB)	24.95
PERFECT GENERAL - WW2 DATA DISK (1MB)	15.75
PGA TOUR GOLF PLUS	21.95
PINBALL FANTASIES (1MB)	21.95
PIRATES	10.95
PIXIE & DIXIE	7.95
PLATINUM (COMP)	15.96
POPEYE 2	6.96
POPEYE 3	7.95
POPULOUS II - DATA DISK	8.00
POPULOUS II PLUS (1 MEG) (1MB)	24.95
POPULOUS/PROMISED LANDS	10.95
POSTMAN PAT	6.96
POSTMAN PAT 3	6.96
POWER UP (COMP)	12.95
PREMIER MANAGER	18.95
PREMIERE (1MB NOT1200)	22.95
PRIME MOVER	21.95
PRINCE OF PERSIA	6.96
PROJECT X - NEW VERSION (1MB)	10.95
PSYBORG	9.95
PUFFY'S SAGA	6.96
QUATTRO POWER MACHINES (COMP)	6.96
QWAK	8.95
R.B.I. BASEBALL 2 (NOT+)	6.96
RAGNAROK	29.95
RAINBOW ISLANDS	6.96
RAMPART (1MB)	14.50
REACH FOR THE SKIES	22.95
ROAD RASH	18.95
RODLAND	7.95
ROLLING RONNY (NOT+)	14.95
ROOKIES (1MB)	18.95
RUBICON	15.96
RUGBY COACH	9.95
RYDER CUP	18.95
RYDER CUP (AMIGA 1200)	18.95
SABRE TEAM (1MB)	13.50
SABRE TEAM - A1200	21.95
SAMURAI - WAY OF THE WARRIOR	17.95
SCRABBLE	20.95
SECRET OF MONKEY ISLAND II (1MB)	27.95
SENSIBLE SOCCER 92/93	18.95
SHOE PEOPLE	7.95
SHOOT 'EM UP CONSTRUCTION KIT	7.95
SILENT SERVICE II (1MB)	24.95
SIM CITY DELUXE	25.99
SIM CITY/POPULOUS	21.95
SIM LIFE (1.5MB)	24.95
SIM LIFE (AMIGA 1200)	24.95
SIMON THE SORCERER (1MB)	24.95
SIMON THE SORCERER (A1200)	29.95
SLEEPWALKER (1MB)	21.95
SLICKS	6.96
SOCCER KID	21.95
SOCCER KID - A1200	21.95
SOCCER MATCH (NOT+)	6.96
SOOTYS FUN WITH NUMBERS	15.75
SOUP TREK	21.95
SPACE CRUSADE - DATA DISK	15.75
SPACE LEGENDS (1MB)	21.95
SPORTS MASTERS (COMP)	21.95
STAR BLADE	7.95
STARDUST (1MB)	13.95
STREET FIGHTER 2 (1MB)	20.95
STRIKE FLEET	10.95
STRIKER MANAGER	7.95
STRYX	7.95
STUNT CAR RACER	6.96
SUBURBAN COMMANDO (+ FREE FILM)	18.75
SUPER FROG (1MB)	19.95
SUPER HEROES (COMP)	17.95
SUPER LEAGUE MANAGER	18.95
SUPER MONACO G.P.	7.95
SUPER TETRIS (1MB NOT1200)	17.95
SUPERCARS II (NOT1200)	7.95
SUPERHERO (1MB)	21.95
SUSPICIOUS CARGO	12.95
SWAP	9.95
SWITCHBLADE II	7.95
SWIV	7.95
SYNDICATE (1MB)	24.95
T.N.T. 2 (COMP)	21.95
TFX (AMIGA 1200)	24.95
THE GREATEST (COMP) (1MB)	24.75
THE PATRICIAN (1MB)	24.75
THE PLAGUE	6.96
THOMAS FUN WITH WORDS	15.75
THOMAS THE TANK ENGINE	6.96
THOMAS THE TANK ENGINE 2	6.96
TINY SKWEEKS	18.95
TOKI	7.95
TOTAL CARNAGE	20.95
TRIPLE ACTION PACK VOL.3	10.95
TRIPLE ACTION PACK VOL.4	10.95
TRIPLE ACTION PACK VOL.5	10.95
TRIVIAL PURSUIT	6.96
TROLLS (1MB)	18.95
TROLLS (AMIGA 1200)	18.95
TURRICAN II	6.96
TWILIGHT 2000	24.95
UNDER PRESSURE	9.95
VALHALLA (1MB)	21.95
WALKER (1MB)	21.95
WAR IN THE GULF (1MB)	21.95
WHALES VOYAGE	21.95
WHALES VOYAGE (A1200)	21.95
WHITE SHARKS	6.96
WONDER DOG	18.95
WOODYS WORLD	18.95
WORLDS OF LEGEND	18.95
ZOOL (1MB)	18.95
ZYCONIX	15.75

Please note

NOT+ means software is not compatible with the 500 Plus, 600 or 1200

CD32

£299.99

DataGEM

Games Centre

Mon - Fri 10am to 8pm
Saturday 10am to 4pm
2 mins from Old St. Tube - take exit 2

Try before you buy at mailorder prices

DataGEM
Games Centre

Educational

CAVE MAZE	10.95
FRACTION GOBLINS	10.95
MATHS DRAGONS	10.95
PICTURE FRACTIONS	10.95
REASONING WITH TROLLS	10.95
TIDY THE HOUSE	10.95
ANSWER BACK JUNIOR QUIZ (6-11)	16.99
ANSWER BACK SENIOR QUIZ (12-AD)	16.99
FRENCH MISTRESS	16.99
GERMAN MASTER	16.99
ITALIAN TUTOR	16.99
MATHS ADVENTURE (6-14)	21.95
SPANISH TUTOR	16.99
MEGA MATHS (A LEVEL)	19.95
MICRO ENGLISH (8-GCSE)	19.95
MICRO FRENCH (BEGINNERS-GCSE)	19.95
MICRO GERMAN (Beginners-GCSE-Business)	19.95
MICRO MATHS (11-GCSE)	19.95
MICRO SCIENCE (8-GCSE)	19.95
PRIMARY MATHS COURSE (3-12)	19.95
READING WRITING COURSE (3-8)	19.95
ALVINS PUZZLES	15.75
PAINT POT 2	15.75
SHOPPING BASKET	15.75
WHICH? WHERE? WHAT?	15.75
BETTER MATHS (12-16)	18.95
BETTER SPELLING (8-ADULT)	18.95
JUNIOR TYPIST (5-10)	13.95
MAGIC MATHS (4-8)	18.95
MATHS MANIA (8-12)	18.95
THE THREE BEARS (5-10)	18.95
ADI ENGLISH (11-12 or 12-13 or 13-14 or 14-15)	18.95
ADI FRENCH (11-12 or 12-13 or 13-14 or 14-15)	18.95
ADI JUNIOR COUNTING (4-5 or 6-7)	15.75
ADI JUNIOR READING (4-5 or 6-7)	15.75
ADI MATHS (11-12 or 12-13 or 13-14 or 14-15)	18.95
FUN SCHOOL 2 (UNDER 6 or 6-8 or OVER 8)	6.96
FUN SCHOOL 3 (UNDER 5 or 5-7 or OVER 7)	18.75
FUN SCHOOL 4 (UNDER 5 or 5-7 or 7-11)	18.75
MERLIN'S MATHS (7-11)	18.95
PAINT-AND CREATE (OVER 5'S)	18.95
SPELLING FAIR (7-13)	18.95

Hint Books

BANE OF THE COSMIC FORGE	12.99
EYE OF THE BEHOLDER I	7.99
EYE OF THE BEHOLDER II	9.99
INDIANA JONES & FATE ATL. (ADV)	9.99
INDIANA JONES & L. CRUSADE (ADV)	5.99
KNIGHTMARE	5.99
LOOM	7.99
MANIAC MANSION	7.99
SECRET OF MONKEY ISLAND	5.99
SECRET OF MONKEY ISLAND II	9.99

Hardware

A500 Expansion upgrade with clock	0.5Mb	27.95
A500 Expansion upgrade without clock	0.5Mb	24.95
A500plus RAM upgrade	1Mb	56.95
A600 Expansion upgrade with clock	1Mb	51.95
Parallel port extension cable		6.80
Parallel printer cable (2m)		8.60
Roboshift (Auto mouse/joystick switch)		14.75
Zi-Fi Stereo Speakers		37.95

3.5" Disks

INDEX
GUARANTEED

Qty	DSDD	DSHD
10	5.30	7.80
20	10.35	15.35
25	12.65	18.25
30	14.75	21.80
35	16.90	25.20
40	18.95	28.60
45	21.10	32.10
50	22.95	34.40
80	36.35	52.30
100	39.95	61.90
120	49.40	72.40
150	60.95	90.25
200	78.75	115.75
250	97.30	143.30
300	116.30	170.75
400	154.50	221.70
500	184.65	269.65
600	223.50	320.60
1000	364.30	524.40

All our disks are fully guaranteed and include labels.

Miscellaneous

4-Player adaptor	6.96
Head Cleaner (3.5")	3.75
Mouse	14.75
Mouse House	2.95
Mouse Mat	2.95
SCART cable	9.49
Workstation for 500 & 500+	42.95
Workstation for 600	37.95
Workstation for 1200	39.95

(Workstations include mouse mat, mouse house and dust cover)

Disk Boxes

10	Slimpack	0.94
40		4.95
50		5.60
80		6.30
80	Stackable	14.95
100		6.80
120		8.75
150		10.95

Joysticks

125+	9.00
Amiga Analogue Adaptor (use any PC analogue joystick on Amiga)	4.99
Competition Pro 5000 - black	13.75
Freewheel - Analogue	36.00
Freewheel - digital	27.00
Maverick 1 (QS128F) or 1M (SQ138F)	13.75
Megastar A/F (SV133)	22.00
Navigator A/F	13.75
Python 1 (QS130F)	9.25
Python 1M (QS137F)	9.75
Quickjoy 1 Turbo (SV121)	7.95
Speedking A/F	11.00
Speedking Analogue	13.50
Star Probe	13.50
The Bug (black or green)	13.50
Topstar (SV127)	21.50

DataGEM

has supplied computer hardware and software to tens of thousands of satisfied customers since 1987

Amiga Atari PC Sega

*Trust **us** to have all you need*

NOBODY DOES IT FASTER

7 days a week. No credit card surcharges
Prices include VAT and UK mainland postage

Credit card orders 10 am to 10 pm

071 608 0624

7 days a week (not an answerphone)

You can also FAX your order to 071 608 0688

VISA MasterCard EUROCARD

Prices include UK postage and VAT and are effective until 18th October 1993. On overseas orders, postage is charged at cost. New titles will be sent as released and are subject to manufacturers' price reviews. All orders taken subject to our standard terms and conditions. E.&O.E.

Cheques/postal orders to

DataGEM Ltd

Department CUA, 23 Pitfield St, London N1 6HB

Orders against cheques with valid guarantee card numbers will be despatched immediately, otherwise upon cheque clearance.

» V.32: This is another CCITT 9,600bps communication standard, this time with fall-back speeds of 7,200bps and 4,800bps. This uses QAM with Trellis coding.

V.32bis: This is much the same as V.32 but goes that bit faster at 14,400bps with an additional fall-back speed of 12,000bps.

V.42: This CCITT standard is not for modem speed, but for error-correcting. It details the way in which a modem requests retransmission of un-verified data blocks. It is also known as LAP-M for no good reason.

V.42bis: This is the CCITT standard for data compression using the Lempel-Ziv encoding algorithm. It is more effective than MNP.

V.Fast: This is the proposed CCITT standard for data communication at speeds up to 28,800bps, and incorporating new techniques to improve noise immunity. It will probably be known by the more boring V.38

ERROR CORRECTION – WHAT YOU NEED TO KNOW.

By far the most common form of error correction are the MNP standards, which were originally developed by Microcom Ltd and are now in the public domain. The term ARQ (automatic repeat request) is used to denote a connection taking place under error control. Error free data transmission is made possible (in theory) when then modem at each end of the link is capable of the correct error-correction protocol, and comprises of two main techniques: error detection and retransmission. Data buffering and flow control MNP levels 1 to 5 can be thought of as concentric shells with level 1 at the centre and level 5 at the outside, with as many levels as possible, starting at the centre, being used by the modems.

Whenever a modem connection is first established, the two modems 'negotiate' between them to decide on which error-correction level to use. This is limited by the modem with the lower abilities of the two.

First of all the modems agree on which, if any, of the first three error levels to use, and if one is decided upon, negotiate again on whether or not to use the additional level 4 or 5 or to use both.

Level 1: This level is often called 'block mode' and supports half-duplex transmission. The sending modem transmits a block of data and waits for an acknowledgement from the receiving modem before sending the next. Level 1 is the slowest level and is only ever included to ensure compatibility with older equipment.

Level 2: This level, as with all higher ones, supports full duplex transmission, in which data flows in both directions at the same time. Connections at level two only achieve 84% of the modem's normal throughput due to overheads caused by the addition of protocol characters and blocks of the error correction itself, and so a modem running at 2,400bps will only transmit 202 cps rather than the expected 240 cps

Level 3: This is a more efficient implementation of level 2. modems sending at this level strip the start and stop bits from the data characters and transmit the data across the link in a bit stream rather than in character format. The receiving modem then »

Supra v32bis Fax modem

SUPRA PRICE£249.99

When you exceed the £200 limit you expect to get a great deal more for your money, and by golly the Supra delivers.

This modem is something a bit special and if you don't believe me, a quick glance at the front panel should convince you: there may be only LEDs on the front, but a twin dot-matrixed LED display more than makes up for lack of lights.

As the modem operates, the panel flashes the lights to keep you informed as to what is going on. And what is usually going on is some pretty darn fast data transmission.

The speeds this little box clocked up were amazing, with the second-fastest file download of any modem under test.

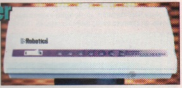
This modem would have been on the top of my list, if only it had been cleared with BABT. As it is, I cannot bring myself to say this modem is the one I'd recommend.

But I'm winking.

90%

US Robotics Sportster

US ROBOTICS PRICE£279.65



Looking more like an alarm clock radio than is natural, the Sportster from US Robotics has a design you'll either love or hate. It's hard to imagine that this tiny box contains enough in the way of advanced electronics to blast data around at 14,400 bps, but that's exactly what it does.

Combined with the MNP level 5 and v42bis data compression, data rates of up to 56,000 bps are theoretically possible when another MNP5/v42bis modem in on the other end of the 'phone line. Note that for the fastest possible transfer rates, a reasonably fast Amiga certainly helps. A fast modem is capable of supplying data faster than a bare 68000 can cope with, so check on what can be the weakest link in your data communication chain.

In use, the Sportster was my favourite of all the modems on test. It consistently got through first time, every time to my test site and up and downloaded data without a hitch. With such speed and reliability in one small box, the Sportster gets my 'best on test' award. It's so good, I think it's about time I upgraded to one myself...

91%

US ROBOTICS PRICE£503.99

This amazing top-of-the-range modem is unique in that it's a dual standard device. Not only does it work with the extra fast 14,000bps mode of the Sportster and Supra, but it uses US Robotic's own HST (high speed transfer) protocol.

If both modems in a link-up support HST, data rates of up to 16,800 bps are possible which is close to the maximum rate possible. Well, not that close as the Courier is promised to be upgradable to the absolutely amazing rate of 28,800 bps when the standard is finalised. Externally, the finish of the Courier is disappointing. Although the controlling DIP switches are easily accessed, the plastic case feels cheap and switches are tacky. A nasty buzzing sound doesn't help the overall impression.

Of course, it's what is inside that counts and the Courier is quite simply the fastest modem generally available.

The Courier gets the last word in this round-up: for the fastest possible data rates, and a degree of almost unheard of future proofing, the Courier is technically state of the art.

89%

Product	Price	Fastest Data	MNP	FAX	v42bis	BABTapproved	Memory
Pace Microlin FX	£205.63	2400	5	Y	Y	Y	20 numbers
Supra modem 2400	£74.99	2400	-	N	N	N	4
Supra FAX modem Plus	£119.99	2400	5	Y	Y	N	4
Supra FAX v32bis	£249.99	14400	5	Y	Y	N	4
PhonePak	£349	n/a	-	Y	Y	N	unlimited (software)
US Robotics Courier	£503.99	14400	5	Y	Y	Y	4
US Robotics Sportster	£279.65	16800(*)	5	Y	Y	Y	4

(*) *in HST mode, 14,000 in v32 mode.*

Data Speeds	Raw Text	LHA archived
Pace Microlin FX	198	162
Supra Modem 2400	204	171
Supra 2400 FAX	204	154
Supra v32bis	2334	1125
US Robotics Sportster	1535	1490
US Robotics Courier	2652	1547

Tested by downloading files onto an A4000/030.
Speeds are in characters per second, to get bits per second multiply by ten.

SPECIAL THANKS

CU Amiga would like to thank the First Computer Centre of Leeds for supplying all the modems we reviewed this issue (except the Phone Pak which came from Silica). If you'd like to know more about any of the modems we have reviewed in our Buyer's Guide, then give them a ring on 0532 319444. We're sure you won't be disappointed.

MODEMS HOW THEY WORK

Modems are designed to transmit computer data from one computer to another, using an ordinary telephone line. This might sound easy as we have no problems using them, but for a computer there are several hurdles to overcome.

The main problem is one of 'bandwidth', which is a value related to the highest frequency a signal can have if it is to be transmitted down a line. The larger the bandwidth, the larger the amount of information which can be transmitted. Unfortunately, the standard voice telephone is designed mainly for voices, which have a very small bandwidth. The challenge when designing a modem is to pack as much information into the bandwidth as possible.

Figure 1 shows an FSK signal in operation. Notice that the constant base signal, the carrier, is altered by the presence of digital data. Everytime a '1' is transmitted, the frequency of the carrier is altered. If you were to listen to an FSK signal, you would hear a single tone, rapidly moving up and down in pitch. Unfortunately, the FSK modulation method does not make very good use of the telephone lines bandwidth, so, for higher transmission speeds, an advanced coding method is required. One such technique involves altering the phase information of a carrier wave, rather than the frequency. Think of the phase as the amount the wave is delayed – see Figure 2.

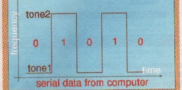


Figure 1: Inside the modem, the received serial data from the computer is used to modulate (alter) the frequency or tone of a carrier wave. At the other end of the telephone line, a demodulator converts the differing frequencies back into binary pulses.

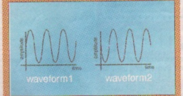


Figure 2: Phase shifting more advanced technique than frequency shifting, although it's a bit harder to visualise. Look where each wave starts. They are said to be 90 degrees out of phase. By altering the phase angle depending on the serial input, very high transmission speeds are possible.

The modem receives a binary digit, but instead of transmitting it directly, it waits for a second. These two digits can form four different combinations or codes (00,01,10 and 11) and for each carrier wave a different phase is transmitted. Using 'Phased Shift Keying' speeds of up to 9600 bits a second can be achieved. The quickest modems use a 'trellis' coding technique, which combines the modulation process with the coding process to achieve speeds of 14,400, 16,800 and 19,200 bits p/sec.

Where will it all end? We know the answer. As the telephone line has a fixed bandwidth, calculations have shown that the absolute fastest transmission rate possible is 23,000 bits per second. So, I'm looking forward to the forthcoming Courier 28,800bps modem.

>> re-inserts the start and stop bits in the appropriate places. This procedure offsets the protocol overhead and achieves a throughput of about 108% of the modems normal operating speed.

Level 4: At this level the information in the headers of data blocks is streamlined to eliminate more of the protocol overhead. Throughput gains at this level can range from another 5% over level 3 to another 25%, depending on the quality of the line. Additionally, the size of the data frames is greater than in level 3.

Level 5: This level incorporates data compression, with the sending modem detecting redundant units of data and recoding them into shorter units of fewer bits. This works in much the same way as the sort of file compression you may already be used to.

HOW IT WORKS

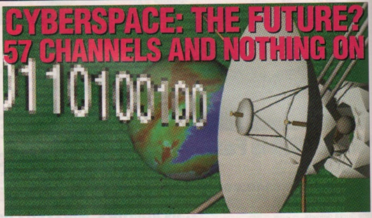
The actual error detection works in the following way. During an ARQ connection, the modem divides the data into blocks, each block having header and trailer information. A block along with its header and trailer is known as a frame.

Included in the header or trailer are a frame number and block size information as well as a checksum code derived by performing an algorithm on all the data in the frame. This is known as Cyclic Redundancy Checking (CRC). The receiving modem performs the same algorithm on the data block and if the results match, sends a positive acknowledgment to the sending modem. If the CRC codes don't match, the receiving modem initiates the ARQ procedure and tells the sending modem which frame is in error and doesn't accept any more frames until the faulty frame is correctly received.

Upon receipt of an ARQ, the sending modem restarts transmission from the faulty block. It may be that an ARQ occurs over and over for the same block (perhaps due to a serious disturbance in the phone connection).

The usual maximum number of times allowed for this to happen is 12, after which the modem will hang up the line. For fairly obvious reasons this is known as ARQ retry timeout. Alternatively, if the modems involved are capable of it, they will 'fall back' to a slower communication speed before timing out.

CYBERSPACE: THE FUTURE? 57 CHANNELS AND NOTHING ON



It won't be long before television signals are pumped directly into your home via digital networks, and it won't be just one or two either; the number of channels is likely to be in the realm of hundreds or even thousands. The bandwidth of optical cable systems is immense, and although the technology behind the transmitters and receivers has still to be perfected, the time is coming when a single cable can carry more information into your house than you will know what to do with.

As well as the normal domestic TV stations there will be dedicated shopping channels, extra-local public access channels and channels run by commercial companies, large and small. This leads to some interesting ideas. How, for example, will you know what to watch and what to ignore? With so much going on, how can you possibly be sure of getting the facts you actually need to know?

Much thought has been expended on this problem, and one solution is the creation of software agents. Your 'agent' is a computer program operating on your behalf, programmed to scan through the vast array of material and keeping an eye out for particular areas of interest. Your agent is programmed with your goals, and knows all about getting the various on-line services to get the facts. You might want your agent to get the latest local weather forecasts, news and sports results every morning. You might want it to book flights, arrange meetings or order your groceries.

TELECOMMUTING

As modems and fax facilities become more affordable, many people are questioning their reasons for working in a traditional office. Many jobs consists of answering the telephone, doing paperwork (on word processors of course) and sending and receiving faxes. For some, the expense of office space and travelling is simply not viable. Many computer journalists, for example, work from home – sending copy to the magazine offices via modem.

CYBERSPACE

In America, where telephones are grafted on at birth, computer communications have formed the creation of new life forms. These beings sit at home in front of computer screens, living their lives in 'Cyberspace' – a different form of reality. From their terminals they can chat to friends, form relationships and even get married, without leaving their room. They buy from on-line mail order centres, who deliver everything from new computers to food, paid for by credit card of course, and delivered within hours. Some have been heard to say, "My life in Cyberspace is more important than my real life". Is this where the future lies? By the year 2000 will we all be staying at terminals, living super-real virtual lives? CU

FLOW CONTROL – WHAT YOU NEED TO KNOW

Modems store data from the host computer in their transmit buffers, and data received from a remote modem is correspondingly stored in the receive buffer. Flow control is the modem's method for ensuring that the buffers do not fill up, causing data loss. It can be controlled from the modem's hardware or indirectly by the driving software. Under hardware control when transmitting data, the modem sends, or stops sending the 'clear to send' (CTS) signal to the host computer, if its transmit buffer is approaching capacity. Stopping this signal physically stops the computer from sending any more data.

Software flow control on the other hand is achieved by the modem sending the ASCII XON/XOFF characters to the computer, which then stops or starts sending the data as required. Receive flow control is carried out in a similar way. The software can send the Request to Send (RTS) signal to the modem to control reception.

RICOH LP1200 PCL5 LASER PRINTER

400DPI 2Mb RAM 6PPM £699 + VAT

A4 TEXT/A5 GRAPHICS @ 400dpi • A4 GRAPHICS @ 300dpi. A 2Mb RAM UPGRADE IS REQUIRED TO PRINT A FULL A4 PAGE OF GRAPHICS AT 400dpi

HP LASERJET III™ COMPATIBLE • FLASH ROM UPGRADEABLE!

Ricoh, have used their expertise to produce a 'first' in laser printers, the LP1200 with FLASH ROM. HP LaserJet III™ compatible, the LP1200 employs industry proven laser technology which, unlike LED printers, uses a laser light source to produce the most accurate and intense printed images at a range of print resolutions up to 400dpi. A fast efficient processor and engine, plus a straight paper path design allows printing at a full 6 pages per minute. The 2Mb RAM version prints a full A4 page of text or graphics at 300dpi. Using standard resident fonts and the alternate controller firmware supplied, it can also print an A4 page of text or A5 page of graphics at 400dpi and, using the Windows driver supplied, an A4 page of text at 400dpi from Windows 3.1.

Laser Scoop
EXCITING NEW FLASH ROM TECHNOLOGY
A4

SHOWN WITH
UNIVERSAL FEEDER
TOP TRAY (OPTIONAL EXTRA)

PC MAGAZINE UK EDITOR'S CHOICE OCTOBER '92

COMPUTER SHOPPER BEST BUY AUGUST '92

PC TODAY BEST BUY OCTOBER '92

What to Buy for business

The 4Mb RAM version can print a full A4 page of graphics at 400 dpi and makes full use of the LP1200's 400 dpi printing capabilities, such as using Microsoft Windows fonts. Unique additional standard features include FLASH ROM 'future proof' technology and LAYOUT - a powerful document description language. The LP1200's unique internal FLASH ROM, which holds the printer controller firmware, can easily be updated as new developments in technology occur. This protects the investment you make in buying a Ricoh LP1200. Other manufacturers would require you to buy a new printer! Internal FLASH ROM and industry standard FLASH ROM PCMCIA cards can also be used to permanently store fonts, macros, graphics and extra emulations. Again, unlike the competition, the LP1200 includes LAYOUT, a powerful and intuitive document description language as standard. This offers unique opportunities to develop custom made printing systems. Forms and document templates can be designed complete with logos and stored electronically in the LP1200's FLASH ROM, alleviating the need for pre-printed forms!

The LP1200 comes with a 100 sheet A4 paper tray as standard. An optional universal feeder automatically feeds up to 150 sheets of paper (up to 169gsm), 15 envelopes, transparencies and labels.

FREE! WINDOWS DRIVER v3.1

WORLD FIRST PLAIN PAPER FAX OPTION

ONLY £120

The LP1200 is the World's First Laser Printer to have the option of being upgraded to a PC independent plain paper fax. Just download the software (£120+VAT) into the LP1200's Flash ROM and connect any fax/modem to the Serial Port (we recommend the Pace Microlin FX - £180+VAT). Using the Windows and DOS software supplied you can send and receive Laser quality faxes all over the world!

FAX/MODEM SOFTWARE FEATURES - £120+VAT - FAX 1200

- Combine 2 or 4 faxes onto one page (A4)
- Greyscales, 3 types of images - Photographic, Line Art, Ricoh Scanned
- Phone number directory (using Windows driver)
- Broadcast (using Windows driver)
- Windows and DOS version
- Receive faxes when PC is switched off
- Use printer for printing while receiving faxes in background mode
- Use LaserJet or Layout protocol documents
- Send faxes from any Windows application

MODEM/HARDWARE FEATURES - £180+VAT - MOD 7199

- CCITT Group 3 send/receive
- Laser quality output
- Automatic retry on busy (x3)
- Memory useable - 2Mb (upgradeable to 4Mb)
- Document macros
- PCMCIA/Intel flash card firmware module available
- A4 paper - but can receive A3 pages scaled down to A4 - 300 dpi. Can send A4 pages scaled upto A3 - 300 dpi
- Out of paper receive
- 9600 baud Fax modem
- 2400 baud Data modem
- Hayes compatible - UK manufacture
- 5 year warranty on modem
- Includes: fax/modem, software, mains adaptor, serial cables, PSTN connection lead and manuals

FOR PCs & COMPATIBLES ONLY

- **6 PAGES PER MINUTE**
  Using a straight paper path
- **PCL5 - INC HP-GL/2**
  With scalable fonts and vector graphics
- **SHARP EDGED PRINTING**
  Ricoh FIAL (Fine Image ALgorithm) enhances resolution
- **400dpi RESOLUTION**
  (Default res. - 300dpi. Will address 200, 240 & 400dpi)
- **2Mb & 4Mb RAM VERSIONS**
- **UNIQUE FLASH ROM**
  For controller upgrade and storage
- **PCMCIA CARD SLOT** (PCMCIA/JEIDA Compatible)
  For programmable FLASH ROM cards
- **EXPANSION BOARD SLOT**
  For improved connectivity eg. Coax/Twinax, PC-LAN etc
- **LAYOUT** Document Description Language
- **SERIAL + PARALLEL PORTS**
- **1 YEAR ON-SITE WARRANTY**
  Next working day response

EDUCATION SALES TEAM
Tel: 081-308 0888 Fax: 081-308 0606

See how the LP1200 compares

FEATURES	IBM 4029-020	FUJITSU VM600	CANON LBP-4 PLUS	STAR 8III	RICOH LP1200
Average Street Price (excl. VAT)	£929	£699	£659	£899	£699
Maximum resolution in dots per inch	300 x 300	300 x 300	300 x 300	300 x 300	400 x 400
Windows 3 Driver @ 400 dpi	-	-	-	-	YES
Print Speed	6ppm	6ppm	4ppm	8ppm	6ppm
Straight Paper Path	-	NO	(ONLY FACE UP)	YES	YES
PCL 5 Printer Command Language	-	YES	-	YES	YES
HP-GL/2 Vector Graphics included	YES	YES	-	YES	YES
Resolution Improvement/Enhancement	YES	YES	YES	YES	YES
Standard RAM	1Mb	1Mb	512K	1Mb	2Mb
Full A4/300 dpi graphics with standard RAM	-	-	-	-	YES
Warm Up Time	33 secs	25 secs	<60 secs	60 secs	45 secs
First Page of Text Output		15 secs	21 secs	18 secs	<15 secs
Document Description Language included	-	-	-	-	YES
Flash ROM	-	-	-	-	YES
Flash ROM Upgradeable Firmware	-	-	-	-	YES
PCMCIA Card Slot	-	-	-	-	YES
Scaleable Resident Fonts - in HP LJ III Emulation	0	8	0	8	8
Resident Bit-Mapped Fonts	10	14	2	14	14
AGFA Intellifont Scaleable Font Technology	-	YES	-	YES	YES
HP LaserJet III Emulation Included	-	YES	-	YES	YES
EPSON FX Emulation Included	-	YES	YES	YES	YES
IBM ProPrinter Emulation Included	-	YES	YES	YES	YES
Standard Tray Capacity	200	150	70	200	100
Protective cover on standard tray	YES	-	YES	YES	YES
Cost per copy**	1.9p	2.0p	2.1p	2.2p	1.65p
Min-Max Paper Weight in gsm	60-163	60-157	60-105	60-135	60-169
Able to print on OHP Film	YES	YES	YES	YES	YES
Able to print on 169gsm card (Manual Feed)	-	-	-	-	YES
Standby - Noise Level	38dB(A)	35dB(A)	<43dB(A)	<43dB(A)	<38dB
Printing - Noise Level	50dB(A)	46dB(A)	<53dB(A)	<53dB(A)	<48dB
PC Independent PLAIN PAPER FAX OPTION	-	-	-	-	YES

**As quoted by manufacturers - July '93

E&OE All Trademarks are acknowledged

CONSUMABLES + ACCESSORIES

CODE	PRODUCT	PRICE
CAB 7500	Cable for PC/ST/Amiga	£8.47
KIT 5200	Laser Starter Kit inc Cable	£25.00
LAA 5238	Universal Feeder (2nd Tray)	£100.00
LAA 5262	2Mb RAM Module	£100.00
LAA 5210	Developer/Toner Cartridge	£69.00
LAA 5225	OPC Cartridge (Drum)	£95.00
LAA 5312	A4 Paper Tray (100 Sheets)	£35.00
FAX 1200	Ricoh Fax/Modem Software/Firmware	£120.00
MOD 7199	Pace Microlin FX Fax/Data Modem	£180.00
LAA 5279	Ricoh Flash ROM Card (0.5Mb)	£49.00
LAA 5288	Ricoh Flash RAM Card (1Mb)	£199.00
LAA 5290	Ricoh Flash RAM Card (4Mb)	£599.00

All Prices are Exc VAT - CALL FOR A FULL PRICE LIST

*Note: A4 paper tray is already included in the printer price. More A4 trays can be purchased to feed different coloured stationery.

	LASER PRINTER	LASER PRINTER + LASER FAX/MODEM
LP1200 WITH SINGLE BIN & 2Mb RAM	£699 +VAT = £821.33 LAS 5200	£999 +VAT = £1173.83 LAS 5200 + FAX 1200 + MOD 7199
LP1200 WITH SINGLE BIN & 4Mb RAM	£799 +VAT = £938.83 LAS 5200 + LAA 5262	£1099 +VAT = £1291.33 LAS 5200 + LAA 5262 + FAX 1200 + MOD 7199

206931519

SILICA SYSTEMS OFFER YOU

- *FREE OVERNIGHT DELIVERY:* On all hardware orders shipped in the UK mainland.
- *TECHNICAL SUPPORT HELPLINE:* Team of technical experts at your service.
- *PRICE MATCH:* We normally match competitors on a "Same product - Same price" basis.
- *ESTABLISHED 14 YEARS:* Proven track record in professional computer sales.
- *£12 MILLION TURNOVER (with 60 staff):* Solid, reliable and profitable.
- *BUSINESS + EDUCATION + GOVERNMENT:* Volume discounts available **081-308 0888.**
- *SHOWROOMS:* Demonstration and training facilities at all our stores.
- *THE FULL STOCK RANGE:* All of your requirements from one supplier.
- *FREE CATALOGUES:* Will be mailed to you with offers + software and peripheral details.
- *PAYMENT:* Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new laser printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or consumables, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE 081-309 1111

SILICA SYSTEMS

SILICA IS A DIVISION OF PROVIS PLC

Ricoh - 2/5/93 - 75S

MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX **Tel: 081-309 1111**
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA **Tel: 071-580 4000**
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-323 4737

LONDON SHOP: Selfridges (Basement Arena), Oxford Street, London, W1A 1AB **Tel: 071-629 1234**
Opening Hours: Mon-Sat 9.30am-7.00pm Late Night: Thursday - 8pm Extension: 3914

SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX **Tel: 081-302 8811**
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday - 7pm Fax No: 081-309 0017

ESSEX SHOP: Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA **Tel: 0702 468039**
Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm) Late Night: Thursday - 7pm Fax No: 0702 468039

To: Silica Systems, CMUSR-1093-75, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND INFORMATION ON THE RICOH LP1200

Mr/Mrs/Ms: .... Initials: .... Surname: .... Date: ....

Company Name (if applicable): ....

Address: ....

....

.... Postcode: ....

Tel (Home): .... Tel (Work): ....

Which computer(s), if any, do you own? 75T

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

How To Attract Girls

NEW. Scientists have now isolated and synthesised a natural female attractant - ANDROSTENONE PHEROMONE.

- "Minute quantities were sprayed on a chair in a dentist's waiting room. Women patients made straight for the chair" **Sunday Times**
- "Women are attracted to the smell" **Daily Telegraph**
- "The woman finds the man attractive but she doesn't know why." **Lifestyle.**
- "The stuff attracts women like you would not believe." **Colorado Telegraph**

Successfully tested on BBC TV's "Tomorrows World".

CONTACT 18 contains ANDROSTENONE and Super ANROSTENOL PHEROMONE and is the best quality, most effective pheromone attractant available. Don't be misled by cheaper (or more expensive) imitations. Comes in a discreet 15ml atomiser (lasts 3 months). **It really works! User reports confirm success:**

"CONTACT 18 really does seem to work! The most dramatic instances have occurred when wearing it at discos. Girls just drift towards me and start flirting." **D.T. Cardiff.**

"I knew CONTACT 18 wasn't a gimmick when one of the girls at work, quite out of character, started to seduce me when we were alone in the office." **S.D. Nottingham.**

Only £12.95 Postpaid.

SPECIAL OFFER:
Order 2 (£25.90) and get an extra CONTACT 18 - **FREE !**
(Works out at only £8.63 each)

Fast despatch under plain cover

Trade Enquiries Welcome

MONEY BACK GUARANTEE:
If you are not 100% delighted with CONTACT 18 simply return remainder within 30 days for a full refund - No questions asked.

24 HR CREDIT CARD HOTLINE
☎ **0534 61 71 81**

GKS RESEARCH TECHNOLOGY
PO.Box 117,
St. Helier, JE4 8QZ

To: G.K.S. RESEARCH TECHNOLOGY P.O. BOX 117, St. HELIER, JE4 8QZ

YES! Please rush me ....bottles of CONTACT 18. I enclose Cheque / P.O.for £.....................(Foreign add £3)

Or debit my Access/Visa Act No...

Signature.......................................Expiry Date..............................

Name...BLOCK

Address..CAPITALS

....Postcode..........................PLEASE

Although we usually deliver much faster, please allow a maximum 28 days
(Office Suite 3, 20 Britannia Place, Bath Street, St. Helier, Jersey JE2 4SL but please use the above address which is a secure PO Box in a main Post Office)

TECHNO SOUND TURBO 2

ADVANCED SOUND SAMPLING SYSTEM

DIRECT TO HARD DISK RECORDING
BUILT IN TRACKER
18 FUNTIME EFFECTS
PULL DOWN MENUS
CONTROLLABLE EFFECTS
SEQUENCER
DIGITISER

£49.99 rrp

18REAL TIME NOVELTY EFFEECTS are available on the **FUNTIME MENU** including **PINKY** and **PUNKY**,**SEX CHANGE, DEEP SEA DIVER, ALIEN, TOP GUN, CHOPPER**, **DARK VADER, BRUNO, AWFUL** the **DUCK**,**NIGHTMARE** on **OAK STREET** Etc.All greeat fun to use with a microphone.

"THE QUALITY IS OUTSTANDINGLY GOOD"
FUTURE MUSIC 86%

FOR THIS PRICE YOU CANT REALLY DO MUCH BETTER
AMIGA FORMAT 88%

ALSO BRITANS FAVOURITE ENTRY LEVEL SAMPLER TECHNO SOUND TURBO £39.99 rrp

TTL UPGRADE KIT AVAILABLE TO EXISTING TECHNOSOUND USERS PHONE FOR DETAILS £16.00

ORDERS ENQUIRIES TO:
NEW DIMENSIONS BROOKLANDS HOUSE BRYNGWYN
RAGLAN GWENT
NP5 2AA
TEL 0291 690 933

CHEQUES P.ORDERS PAYABLE TO NEW DIMENSIONS POSTAGE FREE

Matrix Software Club

Computer Software
Hundreds of programs at a fraction of the price -
- *and* we'll buy them back - guaranteed!

1/2 price membership

THE LATEST & THE POPULAR FROM THE TOP PUBLISHERS FROM BUSINESS TO LEISURE NO COMMITMENT TO BUY SUPER GUARANTEED PRICES QUARTERLY NEWSLETTER WITH REVIEWS, SPECIAL OFFERS, MEMBERS SMALL ADS FAST SERVICE NO PREPAYMENT ESTABLISHED 1981 OVER 3000 MEMBERS

Send S.A.E. or phone (24 Hours) for full information pack. Matrix Computing Services, Dept. CU09, 2 French's Yard, Amwell End, Ware, Hertfordshire SG12 9HP

VISA Access EUROCARD

0920 484479 - 24 hours

Visage Computers

PUBLIC DOMAIN LIBRARY
TELEPHONE (0602) 444501

Access VISA

All Public Domain is copied onto Branded Disks which are certified 100% error free. For a free disk catalogue, please send an SAE plus 2 1st Class stamps. Telephone orders: Mon-Sat 9am-5.30pm. Key: ()=No. of Disks. This is only a small selection from our library, we currently have over 2,500 disks in stock.

DEMOS

Desert Dream (2)
Kefrens "Dane"
Spaceballs "State Of The Art"
Jesus On E's (2)
Alpha & Omega 2 (3)
Mad Elks "Technological Death"
Skizzo Demo 2 (4)
Alchemy "Rage" (2)
Chip Dip 2
Melon "How To Skin A Cat"
Jetset "Blackbox"
Faculty "Brilliance"
Anarchy "Sythentic Delight 5" (Last Ever)
Scoopex Plays 2 Unlimited (2)
Techno Team "American Natives"
Vomit "World of Confusion"
Rage "Neural Assault"
Noice "Megademo"
Melon "Romantic"
Pygmy Design "Extensions"
Fairlight "242"

DISK PRICES & POSTAL RATES

No. of disks	Price per Disk	P&P
1-10	£1	£1
11-25	95p	£1.25
26+	90p	£1.50

GAMES

We stock the entire Assassins games collection 1-110

UTILITIES

North C (2)
AmiBase V3.76
ReloKick 1.3
Golf Recorder
PC Task V2.03
Text Engine
R.S.I. Demo Creator V2
DCOPY 3
600 Business Letters
Alcatraz Legal Tools
Spectrapaint V3.0
F.R.A.C. Adventure Creator
Magnum V1.4 (Disk Mag Creator)
Messysid V2.0
Video Utilities (3)
Kickstart V2 Emulator
Fake Fast Memory
Vmorph V2 Beta
Agene V4.0
Spectrum Emulator V1.7
Rom Monitor V2.7
System Information V3.18

HOW TO ORDER

By Credit Card or By Post Please make cheques, with bankers card number or postal orders payable to:

"VISAGE COMPUTERS"

ANIMATIONS

Schwartz "Quality Time" (4) 5Mb
Schwartz "Bait Masking" 2Mb
Dolphin Dreams
No Speed Limit (3) 2Mb
3 Ways to Stop Smoking 1.5Mb
Decay "The Simpsons"
Cryptoburners "Revelations"
RWO Slideshow

L.S.D.

L.S.D. Legal Tools. The best utility packs on the Amiga, we have 1-135 in stock.

L.S.D. Simply the best demo packs. As the name suggests, these contain all the best intros from all the top groups. We have 1-60 in stock.

GRAPEVINE

Disk Magazine by L.S.D.

Out now Issue #16 (3 Disks)

FRED FISH

We currently have in stock Fish numbers 1 - 890

VISAGE COMPUTERS (DEPT CU)
18 STATION ROAD, ILKESTON, DERBYSHIRE DE7 5LD
TELEPHONE (0602) 444501

THE PROFESSIONAL STANDARDS FOR DISTRIBUTION ENDORSED BY COMMODORE UK

DISKOVERY P.D.
TEL: 0274 880066

(No.) = HOW MANY DISKS TO ORDER, EG (2) = 2 DISK PACK

WHY NOT USE OUR TELEPHONE HOTLINE FOR SAME DAY DESPATCH. CREDIT CARDS WELCOME

EST SEPT 91

SPECIAL OFFERS

1. FOR EVERY 10 P.D. DISKS YOU BUY, WE WILL GIVE YOU A 10 CAP BOX WORTH £1.99 ABSOLUTELY FREE!
2. FOR EVERY 25 P.D. DISKS YOU BUY, YOU CAN CHOOSE ANOTHER 5 FREE

CENTRAL LICENCEWARE

DEMOS

D1...Mental Hangover
D2...Intercepter Demo
D4...Wild Copper
D10...17Bit Music Demos
D11...World Demos 21
D13...Total Remix Demo
D14/15...Predators(2)
D20/21...Red Sector(2)
D24/25...New Tek Reel3(2)
D26...Total Remix 2 Demo
D27...T.V. Theme
D30...Epic Demo
D34...P.D. Collection
D36...Virtual Worlds
D37...Vectra Sinking Demo
D38...TFF Demo Voyage
D40...Safy Demo
D59...Video Effects 3D
D64...Cult Vector Dance 2
D68...Phenomena Demo
D70...Amos 3D Demo
D74...A Trip To Mars
D76...A2000 GenlockDemo
D81/82...Budbrain 1 (2)
D83...Budbrain 2
D85...Crionics Neverwhere
D87...pirhana demo
D101..Alcatraz M/Demo 3
D102..A Chaplin Demo
D103..Total Destruction
D105..Mr B Demo Comp 4
D106..Walter S.T. Demos
D111..Defcon 1
D117..Aurora M/Demo
D118..Cult M/Demo 2
D125..Precise Demo
D133..Fasination
D136..Goldfire Megademo
D137/138..So What (2)
D139..Devils "No Reality"
D144..The Silents "Ice"
D145..Crystal Symphonies
D148..Ray Of Hope 2
D149..No Brain No Pain
D158/159.Cyborg Demo(2)
D195..Coaxial Comp
D197..MC Disk 1 Coma
D199..End Of Century 1999
D206..Dreamers 3
D208..Avengers M/Demo
D216/217..Bass o Matic (2)
D218..Disorder Demo
D219..Tuff Enuff
D225..Cool Fridge Demo
D226..Hardcrack M/Demo
D233..Hypnautic Hammer
D235..Six Of One Demo
D238..Planetside
D239..Lemmings Revenge
D240..Total Respray
D243..Budrain 3
D244..Phenomena Inerspace
D245..Total Retrial
D247..Pulling The Trigger
D253..CES Demos
D256..Total Recount
D257..Total Rebate
D262..Spasmolytic
D264..D-Mob M/Demo
D267..Sun Connection 2
D270..Kefrons The Wall
D271..Timex Hydra
D272..Electric Demos 1
D274..Defpackers Demo
D276..Cave La Weird
D279..Iraqui Demo
D280/281..Delerious (2)
D290..Popeye Demo
D292..Excalibur Demo
D298..Silents+Anarchy
D301..Subway Demo
D302..Tarot Demo
D303..Despair Demo
D307..L.S.D. Demo
D312..Devils Colours
D314..Trakmo
D315..The Groove Ramjam
D322/323..Star Wars (2)
D325/326..Real Empathy(2)
D328/329..Red Dwarf (2)
D330..Darkness M/Demo
D332..Melted Expirience
D333-337..Odyssey (5)
D338..Beastie Boys Demo
D340..Watchman Demo
D341..Anarchy Smoker Co
D342..Ed 209 The Revenge
D343/344..Hardwired (2)
D346..Wildfire M/Demo
D347..Mindwarp M/Demo
D348/349..Skizzo Demo(2)
D350-352..Treacle Team(3)
D358..Mr Men Stories
D359..Seeing Is Believing
D360..State Of The Art
D361..Mayday Resistance
D362/363..Jesus On E's (2)
D364..Fish Tank
D365..Optimum Pressure
D366..Mind Riot
D367..InThe Can Demo
D368..Dynamic Illusions
D369..Piece Of Mind
D370..3D Demo 2
D371..Lethal Exit

UTILITIES

U1...Games Music Creator
U21...The Comms Disk
U32...Modem Utils
U34...Red Devils Utils 1
U36...Soundtracker Special
U38...Paint,Music,Media
U39...Card Designer
U40...Spectrum Emulator
U41...Red Devils Utils 4
U43...Future Composer
U44...Kefrons Makeboot
U45...P.E Giant Utils 168
U47...Label Designer
U49...Ultimate Icon Disk
U50...Power Comp Utils
U51...Jazz Bench
U55...Visicalc
U57...Quickbench
U59...Font Designer
U60...D-Paint Fonts 1
U61...D-Paint Fonts 2
U62...Med 3.20
U63...Direct Anim Creator
U64...Crossword Designer
U66...CLI Help + Others
U67...S/Tracker Mega
U68...Ultimate Boots 1
U69...Ultimate Boots 2
U73...Powerlogo
U74...M-Cad
U75...Journal Home Acc's
U76...Home Utilities
U77...Electrocad
U78...Ami Base
U81...Boothench V2.0
U82...Slideshow Maker
U83...Catalog Workshop 1
U84...Catalog Workshop 2
U87...Hard Disk Utils
U89-94...Amateur Radio (6)
U95...C-Light + Others
U96...GFX Utils 1
U100...Ham Lab
U101...Sid V2.0
U108...A-Gene
U113...Midi Utilities
U118/119...Video Utils (2)
U132...GFX Utils 2
U133/134...North C (2)
U136...CrossDoss (demo)
U138...Squid Squad Utils
U139...Terminalities V1.0
U140...Squash 1 (2.04 only)
U141...Squash 2 (2.04 only)
U142...Text Plus 3
U144...Dennis Samples 1
U145...Digital Intro Design
U146...Viz Clip Art
U147...Spectrum Emulator
U151...Slipstream V/Killers
U152...Red Devils Utils 6
U154...Amigafox W/P
U155...P.D Utils Docs Disk
U163...Quickbench + (2.04)
U164...Rim Database
U166...Dennis's Hack Disk
U167...Demolisher Utils
U168...Home Business 3
U172...Squelch (1.3 only)
U176...GFX Utils 3
U177...Star Charts
U179-180...Dice (2)
U181...Celtic Demo Maker
U186-206...Track Ins 10-30
U207...Icon Collection 1
U208...Dave Jones Fonts 1
U210...Ultrapaint 3
U211...Chemesthetics
U212...Animated Pointers
U213...Desk Top Publisher
U214...Deskbench Icons
U215...Messy Sid 2
U216...Master V/Killer 2.2
U218...Data Base Wizard
U223...Ten Pin Data Base
U224...Q-Base Data Base
U226...Games Solutions 1
U231...D-Paint Fonts 3
U232...Games Cheats 2
U234...Flexi Base
U235...Ami Cash V1
U238...Iconmania
U240...Icon Editor
U252...Opticomms 2.0
U254...New Superkillers 2
U255...Protracker v2.0
U256...Atari ST Emulator
U258...D-Copy 3
U262...PC Emulator
U263...Med 3.21
U273...Vidi Fonts 1
U274...Illinoi Labels
U275...600 Business letters
U279...Invoice Printer
U280...Woman V2.02D
U283...Headline Fonts
U289...Amos Updater
U290...Kickstart 2.04
U292...Black Tiger Utils 1
U293...Black Tiger Utils 2
U294...Text Engine V4.0
U295...Game Tamer
U296...Ultimate Disk Crea
U297...10 PD Copiers
U298...Protracker V3.0

GAMES

G1...Return To Earth
G2...Games comp 5
G3...Dizzy Lizzy
G4...Scum Haters
G5...Parachute Joust
G6...Frantic Freddie
G8...Twintris
G9...Psuedo Cop
G10...Drip
G11...Bug Bash
G12...Asteroids
G13...LLamatron
G14...Escape From Jovi
G15...Moria Adventure
G16...Ground Attack
G17...Megaball
G18...Insiders Club
G19...Various Adventures
G20...Battleforce
G22...Dragon Cave
G24...Rings Of Zon
G25...Mayhem
G26...Mechflight
G27...The Tennis Game
G28...Flaschbier
G29...Buck Rogers
G30...Greyslayer
G31...7-Tiles
G32...Mega Comp 1
G33-34...Star Trek 1 (2)
G35-37...Star Trek 2 (3)
G38-39...Mechforce (2)
G40...Klondyke
G42...Car
G43...Games Comp 2
G44...S.E.U.C.K. Games
G45...Sacc Games Comp
G46...Games Comp 3
G48...Rays Game Disk
G49...Games Comp 4
G50...Games Comp 6
G51-52...Trucking (2)
G53...Jetpac
G55...Quick And Silva
G56...Miniblast
G57...Lamer Game
G58...Games Comp 7
G59...Games comp 8
G60...Pom Pom Gunner
G61...Caverunner
G62...Crystal Caverns
G63...Intact
G64...Eternal Rome
G65...Lemmingoids
G66...DownHill Challenge
G67...Lame ST Ports
G68...Paranoid
G69...Puggles
G70...Chainsaw Death
G71...Pirate Pete's Treasure
G72...Serene 2
G73...Castles
G74...Dynamite Dick
G75...Card Games 1
G76...Wizzy's Quest
G77...Growth
G78...Skate
G79...Atic Atac
G80...Napoleonic Sim
G81...Project 1
G82...Lazer Zone
G83...Lemmings Pack
G84...Star Trek S.E.UP
G85...Lettrix
G87...Matched Pairs
G88...Raphaels Revenge
G89...Snake Pit
G90...Zeus
G91...Merv The Mercilless
G92...Blizzard
G93...The Maze Game
G94...Subculture
G95...Hollywood Trivia
G97...Shootout
G99...Holy Grail Adventure
G100...Amos Coindrop
G101...Classic Comp 1
G102...Card Games 2
G103...Super Skoda Chall
G104...Grand Prix Sim
G105...Games Comp 9
G106...Computer Conflict 2
G107...Mission X Raid 2
G108...NU Game
G109...Antep + Slot Cars
G110...Tricky + The Turn
G111...Marble Slide
G112...Games Comp 10
G113...Black Jack Lab
G114...Dungeon Of Madroj
G115...Amiga Columns
G116...Robocop In Iraq
G117...Mutant Camels
G118...Games Comp 11
G119...Number Fumbler
G120-122...Warlock (3)
G123...Card Sharp 1
G124...Bart Simpson
G125...CC Games Comp
G126...Air Ace 2
G127...Breakout Con Kit
G128...Pipeline
G129...Dung Of Doridian
G132...Peters Quest
G133...Star Trek 3
G134...Piperider
G139...Door To Door
G143...Solid Quad
G144...Omega Race

G145...Mission X Raid 3
G146...Trek 73
G147...Wack In Wonderland
G148...Squats Revenge
G149...Sky Fight
G150...Wet Beaver
G151...Airmania
G152...Wizard World
G154...Totally Frantic Quiz
G155...Chess V2.0
G156...Smash Telly
G159...Billy The Dragon
G160...I-Ching
G161...E-Type
G162...TomCat
G163...Sea Lance
G164...Dizzy Diamonds
G165...No Mans Land
G166...Word Square Solver
G167...Cross Fire
G168...Wastelands
G170...Space Blitz
G171...Crazy Sue
G172...Make A Break
G173...Squamble
G174...F-1 Challenge
G175...Othello
G178...Evil Dead Game
G179...Trainset
G180-181...P Comps 1+2
G182...Diplomacy
G183...Tractor Beam
G184...Motor Duel
G185...Game Boy Tetris 2
G186...Water Works
G187...Act Of War
G188...Mutants Games
G189-193...Timelords 1-5
G194...Nirvana
G195-196...Neighbours (2)
G197...Ameoba Invaders
G198...Game Boy Tetris 1
G199...Tetren
G200...Battlecars 2
G201...Dr Mario
G204...Ashido
G205...Cheats Disk 2
G206...Cheats Disk 3
G207...Next Generation
G208...Airport
G209...F.R.A.C.
G210...The Golden Fleece
G211...Legend of Lothian
G212-214...Timelords 6-8
G215...Amos Games 1

SLIDES

S1...Ham Pics Show 1
S4...Madonna slides
S5...Moviestar slides
S6...Party Disaster
S8...Immaculate Collection
S9...Simpsons Slides
S10-11...Channel 42 (2)
S12...Bruce Lee Slides
S14...Adams Family
S15...Viz Mag Slides
S16...Boris 13
S17...Docklands Jarre
S18...Dr Who Demo
S19...Napalm Death
S20...Nasa Slides
S21...Exodus 3D Slides
S22-24...WWF Slides (3)
S26...Cascade Demo
S27...Demons Slides
S28...Total Recall
S29...Joe's Slides
S30...Ham Pics Show 2
S31...D-Paint Slides
S32...Neighbours Slides
S33...Roger Dean slides
S34...Iron Maiden Slides
S35-36...Tobias Richter (2)
S37...Joe Trsi Slides
S38...Basket case 2
S39...Eces Slides
S40...Fraxion Devine 2
S41...Fraxion Devine 1
S42...Golems Gate Slides
S43...Chainsaw Slippers
S44...Cry For Dawn
S45...Forgotton Realms (2)
S47...Kick Off 3 Slides
S48...PD Slideshow
S49-52...Terminator (4)
S53...Robocop 2 Slides
S54...Trackmaster Slides
S55...Forgotton Realms 2
S56...Garfield Slides
S57...Pawnbroker Slides
S58...Hellraiser Slides
S59...Night Breed Slides
S60...Raytracing
S61...Horror Slides
S63...Tate Gallery 2
S64...Rock Star Manager
S65...Images Slides
S70...Muscle Mania
S71...Creature Comforts
S72...The Wonder Years
S73...Watership Down
S75...Ferrari 348 Pics

S76...Belinda Carlisle
S77...Cher Slides
S79...Freddies Dead
S80...Wendy James Slides
S81...The Invisible World
S82-83...Terminator 2 (2)
S84...Fantasy Pics
S85...Gulf War Slides
S86...Magical Pics
S88...Gulf War Tribute
S89-90...S/Thing Fishy (2)
S91...Eldorado Slides

ANIMS

A1...Probe Sequence
A2...Ghost Pool
A3...Jogger + Magician 1
A4...Gymnast Demo
A5...Fractal Flight
A6...Basketball Demo
A8...Walker Demo
A9...Magician 2
A10...Pugs In Space
A11...Luxor Teenager
A13...Juggler Demo
A16...Cool Cougar
A17...Mono Cycle Anim
A18...Robocop Anim
A20...Mayhem On Wheels
A21...Jugette 2
A22...Shuttlecock Anim
A23...T-Pot Anim
A27...Fleet Manouvre
A28...Billiard Anim
A29...E/Prise Leaves Dock
A30...Starwars 2 Anim
A31...Star Trek Anim
A32...Fraxion revenge
A34...Madonna Anim
A35...Stealthy Anims 2
A36...Raiders Of The L/Ark
A37...Bugs Bunny Show
A38...Iraq V's UK Anim
A39...Mike Tyson anim
A40...Knight Anim
A42...Walker 2
A43...Walker 3
A45-46...Light Cycle (2)
A47...Exploding Head
A48...Police Car Chase
A49...Top Gun Demo
A50...Animators Demo
A51...5 Ways To Kill a Mole
A52...Another 5 Ways
A53...Batman The movie
A54...3D Spaceship
A55...Mr Potato Head
A57...Camouflage
A58...VGA Anim 4
A59...Low Level Flight
A63...Amy V's Walker
A64...Real Pinball Anim
A65...Franklin The Fly
A66...Porky Pig Anim
A67...Adventures Of Chuck
A69...Bunsen Burner
A70-71...Max Overdrive (2)
A73...Spaceshuttle Anim
A74...Ghostbusters + Horse
A76...Alarm Anim
A77...Flight Anim
A78...Piano Anim
A79...Dart Anim
A80...Bad Bird Anim
A81...Holiday Anim
A82...Fillet The Fish
A83...The Boings
A84...Clothes Peg
A85...Miners Anim
A86...Pocket Watch Anim
A90-93...The Movies 2 (4)
A95...My TinToy
A96...T-Pot 2 Anim
A99...Terminator 3
A100...Dolphin Dreams
A101/102...Thunderbirds (2)
A103...History of Amy
A104...Pogo Anim (2 Meg)

CLR LICENCEWARE

CLE01...DINOSAURS (Learn all about certain types of Dinosaurs ie Jurassic, Triassic and Createaceous, on 2 disks £4.50).
CLE02...GEOLOGY (Want to know all about the volcanoes and their substances then try this. 2 disks £4.50).
CLE03...SOLAR SYSTEM (Get to know more about the solar system with information on planets etc and with pictures to look at. 3 disks £4.99).
CLE04...COLOURING PAD (A unique colouring book to keep the kids amused for hours. 1 disk £3.50).
CLE05...A-CHORD (Learn to play the guitar by listening to nearly every single chord available on the instrument. 1 disk £3.50).
CLE06...MATHS INSTRUCTOR (Help yourself get through the GCSE's with this superb maths instructor - Trig, Quadratic Simulations, Volumes, Area etc etc. 1 disk £3.50).
CLE07...FRESHWATER FISHING (Think you know all about fishing? Try this! 2 disks £4.50).
CLE08...NIGHT SKY (Look at the stars, planets, etc from anywhere on the face of the earth and click on a displayed object for info. 2 disks £4.50).
CLE09...WORDS + LADDERS (A word spelling game for 1 or 2 players. 1 disk £3.50).
CLE10...BASICALLY AMIGA (Get to know your Amiga to the full. 3 disks £4.99).
CLE11...LETS LEARN V1.1 (Learn sums, tunes codes etc on this excellent learning aid. Age range from 5-7. 1 disk £3.50).
CLE12...ALPHABET TEACH (Try to spell what you see on the screen. 1 disk £3.50).
CLE13...HOME BREW (With recipes to instructions on fermenting etc. Learn how to make home made wine. 1 disk £3.50).
CLE14...ECOLOGY (Learn more about ecology with this brill program. 3 disks. £4.99).
CLU01...VIDEO TITLER (Make your video look professional. Scrollers etc. 1 disk £3.50).
CLU02...FISH INDEXER (Make pie charts, graphs etc. with figures. 1 disk £3.50).
CLU05...SAS MENU MAKER (Make menus to suit you. 1 disk £3.50).
CLU06...SUPER SOUND 3 (Create your own tunes with this music utility. 2 disks £4.50).
CLU10...POWER ACCOUNTS (Keep accounts of your expenditure with password function. 1 disk £3.50).
CLU11...CALC V1.3 (An excellent spreadsheet for those cross calculations. 1 disk £3.50).
CLU12...VIRTUAL WINDOWS 1 (A collection of useful utilities like address book, note pad, software cats etc. 1 disk £3.50).
CLU13...DATOS (Easy to use yet very powerful database. 1 disk £3.50).
CLG01...NORRIS (A very addictive game set in the Medieaval era. 1 disk £3.50).
CLG02...DARK THINGS (A brill platform scrolly game. 1 disk £3.50).
CLG03...PHASE 2 (An excellent sideways scroll shoot em up game. 1 disk £3.50).
CLG04...X-SYSTEM (A very addictive game with the usual end of level monsters. 1 disk £3.50.
CLG05...TRUCKING ON (Try and manage your own truck fleet. Excellent. 2 disks £4.50).
CLG06...OBLITERATION (Another fast shoot em up type game. 1 disk £3.50 not Plus comp).
CLG08...DRAGON TILES (Old Japanese type Maj Jong style game. 1 disk £3.50).
CLG09...MOTOR DUEL (Drive a 3D car shooting and racing with opponets. 1 disk £3.50).
CLG10...FUTURE SHOCK (A case of getting the ball through the maze. 1disk £3.50).
CLG11...ALL GUNS BLAZING (Car game for 2 players with the overhead view theme. 1 disk £3.50).
CLG12...BULLDOZER BOB (Wipe out the screen of coloured blocks. 1 disk. £3.50).
CLG13...PARADOX (A puzzle game to test those powers of solving. 1 disk £3.50).
CLG14...SONIC SMARTIEHEAD (Another platform style game. 1 disk £3.50).
CLG15...SPLODGE THE REVENGE (Another platform game with puzzles to solve. 1 disk £3.50).
CLG17...IMBRIUM DAY OF RECKONING (One of those graphic adventure type games excellent. 1 disk £3.50).

RAVE & TECHNO PACK

ORDER NO P.O.1

DANCE IN STYLE WITH ALL THE LATEST RAVE AND TECHNO SOUNDS AVAILABLE ON THE AMIGA. THIS PACK IS A MUST FOR ALL YOU RAVERS

10 DISKS FOR ONLY £9.50 +p&p

BUSINESS PACK

ORDER NO P.O.4

WHETHER IT'S JUST TYPING A LETTER OR KEEPING A RECORD OF YOUR FINANCES THIS PACK IS A DEFINITE MUST.

10 DISKS FOR ONLY £9.50 +p&p

EDUCATIONAL PACK

ORDER NO P.O.2

THIS PACK CONTAINS EVERYTHING FROM LEARNING LANGUAGES TO PLAYING GAMES, AND AGES RANGE FROM 4 TO ADULT

15 DISKS FOR ONLY £14.50 +p&p

ROCKFORD PACK

ORDER NO P.O.6

A COLLECTION OF GAMES WHICH ALL INCLUDE THE BOULDERDASH GAME THEME. IT ALSO HAS AN EDITOR SO YOU CAN MAKE YOUR OWN CAVES.

10 DISKS FOR ONLY £9.50 +p&p

C64 EMULATOR PACK

ORDER NO P.O.5

THIS PACK EMULATES THE AMIGA INTO A C64 WITH OVER 60 GAMES TO CHOOSE FROM. COMES WITH FULL INSTRUCTIONS.

3 DISKS FOR ONLY £3.75 +p&p

CLIP ART PACK

ORDER NO P.O.3

WITH 100's OF DIFFERENT PICTURES TO CHOOSE FROM THIS PACK IS AN ABSOLUTE MUST FOR ALL YOU DTP AND D-PAINT ENTHUSIASTS.

15 DISKS FOR ONLY £14.50 +p&p

ASSASSINS PACKS £1.50 EACH

10 DISKS...£10.50+p&p
30 DISKS...£28.50+p&p
40 DISKS...£34.50+p&p
54 DISKS...£43.50+p&p
ALL 70...£58.00+p&p

WE OFFER A FAST AND VERY FRIENDLY SERVICE TO ALL OUR CUSTOMERS WITH THOUSANDS OF TITLES TO CHOOSE FROM. PLEASE SEND A S.A.E. FOR A FREE CATALOGUE

ACCESSORIES

MOUSE HOUSE	£1.99
MOUSE MAT	£2.80
SQUICK MOUSE	£19.99
10 CAP BOX	£1.99
100 CAP BOX	£6.99
A500 DUST COVER	£3.99
A600 DUST COVER	£3.99
3.5" BLANK DISKS	£0.69
PRINTER STAND	£4.99
MONITOR STAND	£10.99
MONITOR COVER	£4.99

HOW TO ORDER

ALL YOU NEED TO DO IS PUT THE NUMBERS OF THE DISKS REQUIRED AND SEND IT TO THE ADDRESS BELOW ALONG WITH A CHEQUE OR P.O. MADE PAYABLE TO "DISKOVERY"

PLEASE DON'T FORGET TO INCLUDE THE CORRECT POSTAGE TO ENSURE SPEEDY DELIVERY.

PRICES

PUBLIC DOMAIN			POSTAGE		
1-9 disks	=	£1.50 each	Europe PD	=	60p
10+ disks	=	£1.25 each	Accessories	=	90p
20+ disks	=	£0.99 each	World PD	=	£1.50
			Accessories	=	£1.90

KICK 1.3

NOW ALL P.D. DISKS WILL WORK ON YOUR A500+/A600 & A1200 WITH THIS AMAZING DISK ONLY £1.50

ASSASSIN'S GAMES PACKS 1-70 NOW IN STOCK

SEND YOUR ORDER TO...

WE ACCEPT ACCESS, VISA AND MASTERCARD

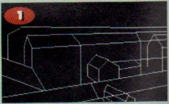
DISKOVERY DEPT (CU), 108 THE AVENUE, CLAYTON, BRADFORD, W. YORKS, BD14 6SJ

ART GALLERY

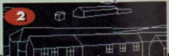
Isn't it amazing what you can do with your Amiga and a bit of graphics software? Here's another selection of stunning Amiga graphics from the oh-so-artistic readers of CU AMIGA.

COUNTRYSIDE

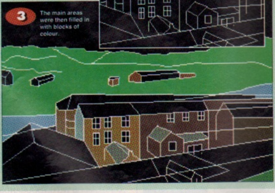
Boris Lain's simple landscape shows that the old school of art is still alive and kicking.


1

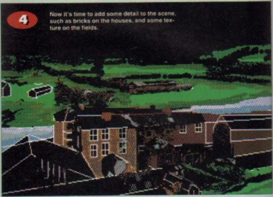
Simple black and white outlines were used to sketch out the foundations of this scene.


2

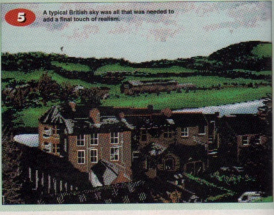
More elements were then added as mono-sketched outlines.


3

The main areas were then filled in with blocks of colour.


4

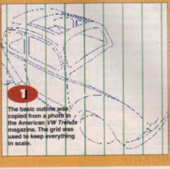
Now it's time to add some detail to the scene, such as bricks on the houses, and some texture on the fields.


5

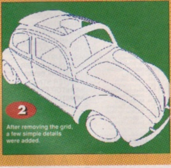
A typical British sky was all that was needed to add a final touch of realism.

VW BEETLE

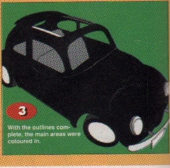
Peter Feetham's rendition of a VW Beetle is one for all you car lovers. It was drawn with 16 colours in hi-res using *Dpaint III*.


1

The basic outline was copied from a photo in the American *VW Trends* magazine. The grid was used to keep everything in scale.


2

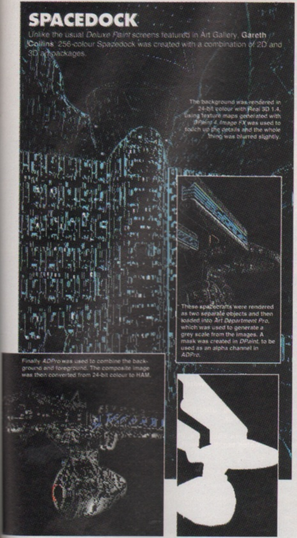
After removing the grid, a few simple details were added.


3

With the outlines complete, the main areas were coloured in.

SPACEDOCK

Unlike the usual *Deluxe Paint* screens featured in Art Gallery, **Gareth Collins**' 256-colour Spacedock was created with a combination of 2D and 3D art packages.



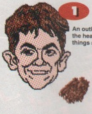
The background was rendered in 24-bit colour with Real 3D 1.4, using texture maps generated with *DPaint 4*. *Image FX* was used to touch up the details and the whole thing was blurred slightly.

These spacecrafts were rendered as two separate objects and then loaded into *Art Department Pro*, which was used to generate a grey scale from the images. A mask was created in *DPaint*, to be used as an alpha channel in *ADPro*.

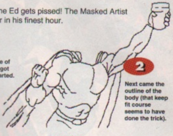
Finally *ADPro* was used to combine the background and foreground. The composite image was then converted from 24-bit colour to HAM.

SUPER ED!

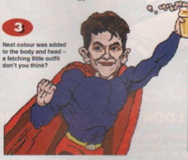
When the going gets tough, the Ed gets pissed! The Masked Artist captures Captain Pea-bladder in his finest hour.



An outline of the head got things started.

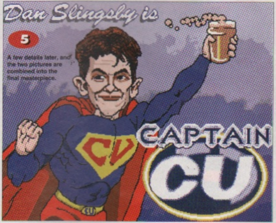


Next came the outline of the body (that keep fit course seems to have done the trick).

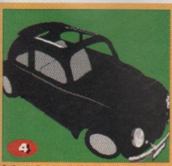


Next colour was added to the body and head – a fetching little outfit don't you think?

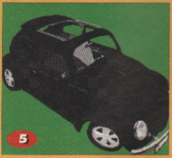
A simple backdrop was drawn up on a spare screen.



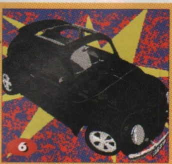
A few details later, and the two pictures are combined into the final masterpiece.



Further details and shading followed.



Finally, the car was finished, complete with textured interior and sporty wheels.



In the true spirit of VW Beetling, a psychedelic backdrop was pasted behind the main image. How about a split-screen van next time?

NEW AMIGA

OFF
ON
ACTIVE
ACTION REPLAY MK III
FREEZE
POWER
ed and manufactured in the U.K. by Datel Electronics

THE WORLDS MOST POWERFUL

JUST LOOK AT THE UNMATCHED RANGE OF FEATURES

SAVE THE ENTIRE PROGRAM IN MEMORY TO DISK
Special compacting techniques enable up to 3 programs to fit on one disk. Now saves directly to disk as Amiga Dos - reloads independently of the cartridge - even transfer to hard drive! Works with up to 2 Megs of Ram - even 1 Meg Chip Mem (Fatter Agnus).

NEW **SUPER POWERFUL TRAINER MODE-**
now with DEEP trainer. Even better than before - allows you to generate more or even infinite lives, fuel, ammo. Perfect as a Trainer Mode to get you past that "impossible" level. Easy to use.

IMPROVED SPRITE EDITOR
The full Sprite Editor allows you to view/modify the whole sprite set including any "attached" sprites. PLUS A RANGE OF IMPROVED FEATURES.

VIRUS DETECTION
Comprehensive virus detection and removal features to protect your software investment. Works with all presently known viruses.

NEW **BURST NIBBLER**
Now this super disk copier program is built into Action Replay Mk III. Just imagine a superfast, efficient disk copier program at the press of a key - no more waiting.

SAVE PICTURES AND MUSIC TO DISK
Pictures and sound samples can be saved to disk. Files are saved directly in IFF format suitable for use with all the major graphic and music packages. Samples are displayed as screen waveform.

NEW **PAL or NTSC MODES SELECTABLE-**
Useful for removing ugly borders when using NTSC software. (Works only with newer Agnus chips).

NEW **SLOW MOTION MODE**
Now you can slow down the action to your own pace. Easily adjustable from full speed to 20% speed. Ideal to help you through the tricky parts!

MANY MORE INSTANT CLI COMMANDS-
like Rename, Relabel, Copy, etc.

NEW **RESTART THE PROGRAM**
Simply press a key and the program will continue where you left off.

FULL STATUS REPORTING
At the press of a key now you can view the Machine Status, including Fast Ram, Chip Ram, RamDisk, Drive Status, etc.

POWERFUL PICTURE EDITOR
Now you can manipulate and search for screens throughout memory. Over 50 commands to edit the picture plus unique on screen status "overlay" shows all the information you could ever need to work on screens. No other product comes close to offering such dynamic screen handling of frozen programs!!

JOYSTICK HANDLER-
allows the user to select Joystick instead of Keypresses - very useful for many keyboard programs.

MUSIC SOUND TRACKER
With Sound Tracker you can find the complete music in programs, demos, etc. and save them to disk. Saves in format suitable for most track player programs. Works with loads of programs!!

DATEL Electronics LIMITED

HOW TO GET YOUR ORDER FAST!

ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO.....

DATEL ELECTRONICS

GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON,
STOKE-ON-TRENT, ST4 2RS, ENGLAND. FAX 0782 744292
TECHNICAL/CUSTOMER SERVICE 0782 744324

OR CALL AT OUR LONDON SHOP

HIGH RESOLUTION HANDY SCANNER

NOW ONLY £89.99

FREE PHOTON PAINT

A Top Quality 400 DPI
Handy Scanner
for the Amiga
at a truly
Unbeatable
Price!!

GeniScan
START LETTER PHOTO
LIGHT DARK

NOW INCLUDES HANDY SCANNER, INTERFACE, POWER PACK & SCAN EDIT 3.0 SOFTWARE

- IFF Buffer Save 1600x1024 pixels, dual buffer, scan matching & view Buffer.
- Unlimited edit/capture facilities &keyboard control not offered by other scanners at this special price.
- Full keyboard control of most functions.
- An easy to handle Scanner featuring 105 mm scanning width & 400 dpi reolution enables you to scan graphics/text into your Amiga 500/500+/600/1200/1500/2000.
- Includes hard disk transfer to run under Workbench.
- Adjustable switches for brightness/contrast levels.
- Full sizing menu of scan area.
- Geniscan gives you the ability to scan images, text or graphics & even offers 200 Dpi Dual Scan Mode.
- Screen grid overlay & configure menu to save parameters.
- Icon menu to select functions.
- X,Y position readout & metric sizes.
- Save images in suitable format for most leading packages including PHOTON PAINT, DELUXE PAINT, etc.
- View window and position control panel.
- Powerful partner for DTP that allows for cut & paste editing of images etc.

GENIUS DIGITIZING TABLET

NOW ONLY £129.99

GENIUS PUCK

AS AN ALTERNATIVE TO THE STYLUS INPUT
THE GENIUS TABLET ALSO HAS AN OPTIONAL
FOUR BUTTON PUCK.
IDEAL FOR TRACING ETC.

ONLY £29.99

ACCESSORIES

ADD A PROFESSIONAL TOUCH TO YOUR DRAWING WORK

- With the Amiga Genitizer Graphic Tablet you can streamline the operation of most graphic or CAD programs.
- The Genitizer Graphic Tablet utilises latest technology to offer up to 1000 dpi resolution at the tip of a stylus.
- Complete 9"x6" digitizing area plus super accurate stylus combine to enable fast, accurate and easy control.
- Works by "mouse emulation" so the Genitizer will work with most packages where mouse input is the usual method-Deluxe Paint, Photon Paint, CAD Packages, etc.
- Suplied with template for Deluxe Paint.
- Full easy to follow instructions.
- This is the input method used on professional systems -now you can add a new dimension to graphics/cad.
- Fast input of drawing by "tracing" is made easy - plus "absolute reference" means you can move around the screen many times faster than by a mouse.
- The Genitizer fits in the serial port of your Amiga 500/500+/600/1200/1500/2000 and "co-exists" with mouse.
- Unlike a mouse, the tablet gives absolute co-ordinates so that tracking and menu selections are possible from the tablet face.
- A pressure sensitive switch built into the stylus tip activates the Tablet overriding the normal mouse input. When you are not using the Tablet, you have normal mouse control.
- Complete system - Graphics Digitizer Tablet, Stylus, Deluxe Paint Template, Power Adator, Test Software, Interface Unit, plus Driver Program - no more to buy!

ACCESSORIES

MIDI MASTER MIDI INTERFACE £19.99
Best selling Midi Interface for the Amiga. Midi IN, Midi THRU & Midi OUT x3. Complete with 2 FREE Midi Cables.

MIDI CABLES £7.99 (per pair)
1.8 metre long genuine Midi Cables.

LOGIC 3 MOUSE £14.99
Top quality, super smooth replacement mouse. High resolution.

VIRUS PROTECTOR £7.99
Fits in last drive of your system to protect against boot block viruses.

ROM SHARER £24.99
Switch between versions of Kickstart to improve software compatibity. Kickstart 1.3 or Kickstart 2.0 at the flick of a switch for Amiga 500+ owners! No more to buy.

Access
VISA
SWITCH

24 HOUR MAIL ORDER HOTLINE
0782 744707
ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs.

DATEL Electronics LIMITED

United Public D

The innovators

Look out for the CLR logo!

THE BEST SELECTION OF PD IN THE UK !

GAMES

PG003 AIR WARRIOR Good flight Sim + (not A600!)
PG006 ANTEP & SLOT CARS role playing game+ Y
PG021 ATIC ATAC Really playable game! + Y
PG023 BATTLEFORCE strategy war game!
PG024 BLACKJACK A good card game! +
PG026 CASTLE OF DOOM Excellent! Get it + Y
PG028 COLOSSUS & WORLD Fab adventures !+ Y
PG031 DARKSTAFF Spec emulated text adventure!+
PG032 DRAGONS CAVE D&D style game Mega+ Y
PG034 ETERNAL ROME Strategy & DOMINOES+ Y
PG046 HACK Great text adventure-infocom style! +Y
PG047 HOLLYWOOD TRIVIA Nice Trivia Game! +
PG048 HOLY GRAIL One of the best Text adventures+ Y
PG053 LARN A superb text adventure game + Y
PG059 LORE OF CONQUEST space trading D&D game Y
PG062 MENTAL IMAGE 1 Gridrunner invaders & rebound+
PG063 MORIA Classic adventure now version 5.4! +Y
PG064 NAPOLEONIC WAR SIMULATOR A strategy game!
PG068 NO MANS LAND Hi tech war game-shoot em up. +Y
PG070 PETER'S QUEST Rescue the maiden platform!+
PG071 POM POM GUNNER Like beach-head on the 64+Y
PG072 PROPERTY MARKET Become a millionaire !!
PG073 RAPHAELS REVENGE Turtle game in SEUCK!+
PG074 RETURN TO EARTH Elite space trading game! +Y
PG076 SEVEN TILES Speedball type game-MEGA!
PG079 SEALANCE A submarine strategy game +Y
PG101 THE INSIDERS CLUB Stocks & shares game
PG121 A500+ GAMES PACK 21 games to run on a plus+Y
PG127 AIRMANIA Super platform game from Addware + Y
PG128 CHEAT WORKS Stacks of new cheats.
PG129 PUGGLES Brilliant Q*Bert game!
PG131 ATLANTIS A nice looking strategy game!+
PG138 BATTLE OF BRITAIN & WAR strategy War games!
PG139 DUNGEONS OF MADROJ Excellent D&D game+Y
PG140 MIND GAMES Stacks of fun with this!
PG149 A NIGHT AT THE TOWN Witty text adventure!+
PG153 WAR very good strategy/arcade game+Y
PG154 NUMPTY & ALIEN INVADERS Manic miner type game
PG159 MR BRICK Great mario type collect coins game!
PG164 GAME TAMER 2.3 joystick tester & 268 cheats!+
PG165 SOLID SQUAD Nice little driving game!
PG168 WHATSITSNAME Great new puzzle game just in.
PG174 AMOS CRICKET Shareware cricket game,1 or 2plr+
PG175 SPACETRAX 2 player shoot each other up game+Y
PG178 MENTAL IMAGE 2 Three Excellent new games +
PG180 SECTOR 1 A nice game similar to Alien Breed+
PG182 ETHOS Simple graphical adventue Sinbad style+Y
PG183 CATACOOMBS great D&D style game. VG.GFX +Y
PG184 FATAL MISSION Very good Shootemup game +
PG185 ARAZMAX Similar to the game Microbes. Good +
PG190 TOP SECRET An exelent quality platform game!+
PG191 ACT OF WAR New space strategy game! +Y
PG194 INTRUDER ALERT Very good strategy game!
PG199 CASHFRUIT Nice fruit machine game! +Y
PG200 ALL ROUNDER CRICKET New cricket game!+Y
PG202/3 IRON CLADS Good strategic war game!(2)Y
PG205 SOCCER CARDS Football managing game!+Y
PG218/9 CLASH OF THE EMPIRES Super strategy!+ Y
PG226 3D GAMES 3 games done in 3d construction+Y
PG247 PICTURE TILES Nice picture puzzle game + Y
PG255 KINGDOM AT WAR Nice strategy war game!+Y
PG256 LCD DREAMS 4 small LCD games! +Y
PG257 THE FUNHOUSE Enigma,Thundertron & a slide!+Y
PG258 AGA TETRIS 1200 tetris game & more! Y
PG259 PICTURE PUZZLE Solve picture jigsaws!+Y
PG260/1 18TH HOLE A nice golf game! (2) +Y
PG262 AGA CHESS Needs 4mg of ram to play! AGA ONLY.
PG264 SOLITAIRE SAMPLER Nice new game! +Y
PG265 WIBBLE WORLD GIDDY Fab platform game! +Y
PG266 BOX ADVENTURE Nice shareware adventure+Y
PG267 SLAMBALL V1.1 Futuristic Management sim! +Y
PG268 SLIDE SQUARES Nice sliding puzzles. +Y
PG269 GUSH This is a pipeline type game! +Y
PG270 THEY CAME FROM OUTER SPACE invaders+Y
PG272 MAYHEM 2 Multiplayer manic maze game! +Y
PG273 MUGSIE Money making gangster adventure!+Y
PG274 ROULETTE & PUNTO 2 nice games (not 1.3)+Y
PG275 BLITZ GAMES Worm Buzzbar Speed+ Insectoids+Y
PG276 SKIDMARKS Amazing driving game,very fast!+Y
PG277 ZOMBIE APOCALYPSE & DEFENDER 2 fab games+Y
PG278 BILLY BURGLAR Just try & escape the spotlight+Y
PG279/80 OLYMPIAD 2 disk Lemming olympic events(2)+Y
PG281 CAVEFLIGHT Simple dodge the obstacles game+Y

ASSASSINS GAMES PACKS!

The best selection of PD games ever assembled anywhere now all autoboot on A1200! (though not all games will run)Something for everyone!

ASI 1 Tanx, Rollerpede, Avatris Amigoids etc!+
ASI 2 Invaders,Bally 2,Missile command etc!+Y
ASI 3 Megaball & Drip Superb gamepack! +Y
ASI 4 Frogger Go Moku,Cracker Jumpy etc!+
ASI 5 Raid, Go Looly & Retaliator+Y
ASI 6 Pacman Downhillchallenge Welltris etc!+
ASI 7 Moonbase, Trix,Nightworks Clauderunner!+
ASI 8 Airace2,Hball Snakepit & Numbertumbler!+Y
ASI 9 Features Battle pong & Blizzard! + Y
ASI 10 Escape, Pipeline, Pickout & Sys!+
ASI 11 Dad, Connex,Reversi Towers & Trippin+
ASI 12 Llamatron, Car, Powerpong, XPI, Fab!!+
ASI 13 Twintris, Squamble,Block II,Ball etc!+
ASI 14 ChinaChallenge2 & Amiga Columns!+Y
ASI 15 Battlecars Lettrix & Mambamove!Y
ASI 16 Wastelands, Mission X,Dellemna,Pacman +Y
ASI 17 Tomcat, Defenda, Jetman Bugblaster+ Y
ASI 18 Henry in Panic Skyflyer Omega race!+ Y
ASI 19 Growth,FranticFreddy Biplane & more!+NOT600
ASI 20 Microbes Hollywood trivia Coin drop +Y
ASI 21 Zeus Tetrix Battlements & Dragonflies+Y
ASI 22 Lemmingoids,Wizzys quest Duel Mouthman+Y
ASI 23 Quick money,BIP,Interferon Arcadia+
ASI 24 Revenge of camels Dux Croak 3dmaze etc!+Y
ASI 25 Mr Brick,Copper,hemeroids,E Type+Y
ASI 26 Superpacman 92 Smashtv Ashido System 4etc+
ASI 27 Addictive card games. Really good!+Y
ASI 28 Doody, DrMario, Invaders2, Madbomber2+
ASI 29 DOG, Rome, Nova, B-Bal, Atax, Quadrix+Y
ASI 30 Bounce & Blast, Total Fire Tank attack!+Y
ASI 31 Arazmaz,Crazy pipe, revolution etc!+ Y
ASI 32 Blob, Sector one & Firefighter! +Y
ASI 33 Hyperball & War! 2 good games+Y
ASI 34 Trailblazer, Yelp, Qbic Rushour! +Y
ASI 35 Pong,Snakepit,Cybernetix Jump n roll+Y
ASI 36 Mother lode, Wonderland, Kong Tactix!+Y
ASI 37 Klaxdrs, Ghostship, Paccer etc!+Y
ASI 38 One on One,Baldy,Skyflyer2,Transplant!Y
ASI 39 Lots of card games on this disk! +Y
ASI 40 Disk full of sliding puzzle games!+Y
ASI 41 Pacman deluxe, Hellzone Leap II etc+
ASI 42 Galaga, Intruder alert Dogs in Space!+
ASI 43 Interlock Roulette Octothello etc!+Y
ASI 44 Nibbler,Mouse Impossible,Roll on etc+Y
ASI 45 Dris,Paccheese,B-Castle Teserae etc+Y
ASI 46 Amiga Q, City,Checkers, Ouch etc! + Y
ASI 47 Elevation, Furnyre,Crave,Arena! + Y
ASI 48 Point to point,Psycho santa etc! +Y
ASI 49 Deathbringer in space Sue 1+2 etc!+Y
ASI 50 Euphorion,Roach Motel,Balders grove! +Y
ASI 51 Lamers, Fighting Warrior Shapes! +Y
ASI 52 Rockslide, Mouthman, & Nu! +
ASI 53 Venus Invaders,Mastermind etc! + Y
ASI 54 Serene,Serene II & Car Wars! + Y
ASI 55 Cli-tris, Pacatac & Asteroids! + Y
ASI 56 Stormeagle, Extreme Violence & Tiles!+Y
ASI 57 Poo-poo Dominoes Dizzy diamonds Squirm+Y
ASI 58 Super raid 4 Magnatron & Malessae!+Y
ASI 59 Turbo thrust GX200 & Leedings! +Y
ASI 60 Pipe master2 Alien Hunter & Checkers! +Y
ASI 61 Rattlesnake Running Chaser Scud blaster+Y
ASI 62 Pipeline2 Mazeman & Up and Down ! +Y
ASI 63 Nautilus Frenzy & Drive in!! +Y
ASI 64 Oblivion(fab!) Breakout con kit etc!+Y
ASI 65 Paranoids Chess Word Puzzle Word search+Y
ASI 66 Cow wars Asmastermind & Asokoban! +Y
ASI 67 Siege of the Beast,E Type II & Vektor!+Y
ASI 68 Demolition Mission,Bounder & Atoms!+Y
ASI 69 Klondike,Celestial Apoker Bridge etc!+Y
ASI 70 Digital Tetris, Wangle & Tetris pro!+Y
ASI 71 Numerix, Battleships & Vs Tanks! +Y
ASI 72 Escape pre, Boulderdash(not 1200) Car!!+Y
ASI 73 Lexess, Concentration & Challenger!+Y
ASI 74 Crazy pipes II,Bombjacky & Chute! +Y
ASI 75 Double-squares Colours & Diamond thief+Y
ASI 76 Gnu Chess, Cubus & Gerb! +Y
ASI 77 Balloonacy, Cliffhanger & Descender! +Y
ASI 78 Little Boulder, Headgames Fruit Panic! + Y
ASI 79 Gray Attack, Vector Storm & Atoms! +Y
ASI 80 Army Miner Flip it,Golf The Gallows etc +Y
ASI 81 Amos Defence, Thunder Tron & Gergundulal +Y
ASI 82 Artillerys Shuttle run & Arcade Volleyball+Y
ASI 83 Loadsamoney, Pong & Spider(cards)! +Y
ASI 84 Enigma, Atishoo & Zerberk! +Y
ASI 85 Paradox pre, Matchcards,Rubik & Bagitman! +
ASI 86 Smurfhunt,Lords of Host,Legend of Lothian.+Y
ASI 87 Aztec Challenge,Jonus Fullstrand & Landmines+
ASI 88 Defender, Relayer & Mosaic! +Y
ASI 89 Megaball 2.1, X fire and Cluedo!+Y
ASI 90 Flashbier, Startans & Minefield! +Y
ASI 91 Roton, Matrix & Spectrum! +Y
ASI 92 Bill, Oblidox, & Solitaire Sampler! +Y
ASI 93 Smash bang wallop, Mr Munk & Alien bash!+
ASI 94 Super skoda challenge,Merchamoid & Giddy! +
ASI 95 Premier pics,Tangle,Bop & Flop & Super league man
ASI 96 Dungeon Flipper,Backgammon Tumble tots rasterbike
ASI 97 Bunnyblast,Mutants from Mars, New stubb city!+Y
ASI 98 Skychase The Phone company & Nestor cards! +Y
ASI 99 Grbit, Paranemmot, Space Wars & Org! +Y
ASI 100 Bloodrunner, Patience & Monaco! +Y
ASI 101 Meltdown, Paragon Boomerang & Rothello! +Y
ASI 102 Fruit Salad, Rebound & Pacami! +Y
ASI 103 The Lost Docrest, Wacky wabbit & Megarace!+Y
ASI 104 Wooden Ball, Operation meteor & Pork a pork!+Y
ASI 105 Particle man,Rummy & Desert defender! +Y
ASI 106 Simon,Cosmoroids II Willy worm & Micro market!+Y
ASI 107 Serene III, 4 row 3d Equilog & Yacht C I +Y
ASI 108 Strikeball, Ringwar, Four in a row & Obsess! +Y
ASI 109 Psyco blast,King high,Deluxe hamburg Thrallbound+Y
ASI 110 Space rescue Tiles Zerg & Huskerou! +Y
ASI 111 Karate Worm II Stax & Billy Dragon! +Y
ASI 112 Thunderton II Aliens Tron & Step 2! +Y
ASI 113 White rabbits preview,Trek trivia & Popeye!!! +Y
ASI 114 International Cricket pre,Insectoids II & Yum yum! +Y
ASI 115 Star trek shoot up,Egyptian run Slime line & Shark!+Y

Assassins game packs made up in any numbers you require: eg ASI 1-35 only 33.95 inc P&P!!!
FUNPACK GAMES PACK 1-35 only 33.95 inc P&P!!!
(most run on Amiga 1200!)

EDUCATION

PE001/5 EDUCATION SET science programs for age 11+ +Y
PE006 KIDSPAINT Fab little talking colouring book+Y
PE007/8 LEARN & PLAY Maths, spelling etc. 5-10 yrs +Y
PE009 STORYLAND 2 Save toyland from the witch! +Y
PE010 TOTAL CONCEPTS ASTROMOMY Book on disk.+Y
PE011 TOTAL CONCEPTS DINOSAURS Book on a disk+Y
PE013 SIMON & SPACE MATHS Talking maths program
PE014 SPANISH, FRENCH, GERMAN TUTOR+Not 600!
PE015 TREASURE SEARCH find the lost treasure ! +Y
PE016 COLOUR THE ALPHABET learn letters & colours! +Y
PE018 TYPING TUTOR, Superspell Budget & Mscalender+Y
PE019 DUNKS DTP A sort of DeskTopPublisher for kids +Y
PE020 MATHS DRILL Good maths disk for the young! +Y
PE021/4 SCIENCE Very good four disk set!+ (4)Y
PE025 FRACTIONS & SILHOUETTES Good maths tutor+ Y
PE026 WW II FACTS Good historical program!+ Y
PE027 AMIGA BEGINNER Learn to use your machine+ Y
PE028 MATHS ADVENTURE Solve questions to progress+Y
PE030/2 DESKTOP GUIDE TO ELECTRONIC MUSIC +Y
PE033 MATCH WITH HUMPTY Match the objects! + Y
PE034 WORLD GEOGRAPHY Quite useful disk! +Y
PE035 KIDS DISK1 Super to learn reading! +Y
PE036 FIREWORKS ALPHABET Good for kids! +Y
PE037 HOORAY FOR HENRIETTA Superb preview!+Y
PE038 HENRIETTAS BOOK OF SPELLS Fab preview!+Y
PE039 COLOUR IT Exelent little colouring pad!+Y
PE040 HOW THE EARTH BEGAN The full story! +Y
PE041 SINGALONG NURSERY RHYMES Good fun! +Y
PE042 CHILDRENS FAVOURITES More fun! +Y
PE043 PICTURES & LETTERS For very young 1mg chip+Y
PE044/5 AMERICAN FOOTBALL Learn the game(2)!+Y
PE046 TOTAL CONCEPTS DINOS 3 PREVIEW Superb +Y

BUSINESS

PB001 AMICASH bank management program+Y
PB002/3 ANALYTICALC Superb spreadsheet!+ (2)Y
PB004 ASI LABEL PRINTERS 3 of the best+Y
PB005 BANKIN control your cheque book! +Y
PB006 BUSINESS CARD MAKER Nice program+
PB007 CLERK Complete accounts package+Y
PB008 DESKTOP PUBLISHER Simple to use +Y
PB009 FLEXYBASE DATABASE Address keeper+Y
PB011 MISC.BUSINESS Geotime, Grocery list, Calc
PB013 QED Simple & effective text ed+Y
PB014 RIM DATABASE Fully relational !!+Y
PB015 TEXTPLUS V3.00 The BEST Wordprocessor +Y
PB017 VISICALC SPREADSHEET Simple to use+Y
PB019 BUSINESS LETTERS contracts, letters + more+Y
PB020 TEXT ENGINE 4.0 THE LATEST Version !!! +Y
PB021 AMIBASE PRO. Powerful easy to use Dbase +Y
PB022 BBASE IIIv1.3 Latest version of super database+Y
PB023 FORMS REALLY UNLIMITED form creation prog+Y
PB024 LAST WILL & TESTAMENTS Just in case !+Y
PB025 EDWORD Brand new wordpro - V.good +Y
PB026 AGRAPH Superb Program graphing data +Y
PB028 LITTLE OFFICE Intergrated Wpro,Sst,Dbase,Gfx+Y
PB029 ADDRESS PRINT Good label printing program! +Y
PB030 THE MONEY PROGRAM Home accounting! +Y
PB031 EASYCALC A superb new Fast spreadsheet! +Y
PB032 PAY ADVICE Keep record of payslips! +Y
PB033 A BASE A shareware database program! +Y
PB034 ILLINOIS LABELS Super label program!+Y
PB035 BUDGET V1.34 manage personal finances!+
PB036 CHECKBOOK ACCOUNTANT V2.01 superb! +Y

UTILITIES

(Note: "Y" = ok on A1200!)

PU002 A-GENE Good geneology program + Y
PU004a/b A64 EMULATOR NEW VERSION 2.0 (2)
PU005 AMATEUR RADIO 1 interest to radio hams + Y
PU010 ARP 1.3 Amigados requester system!+
PU012 ASI GRAFFIX UTILS graphics convertors etc+Y
PU013 ASI BOOT UTILITIES bootblock utilities + Y
PU015 BIORYTHMS, STARCHART 2 Good programs+ Y
PU021 C-LIGHT RAY TRACER Good program+ Y
PU022 CHEMESTHETICS molecule displayer + Y
PU036 CURSER BASIC COMPILER Just what you need!+
PU037 D-COPY The best PD disk copier & more + Y
PU039 DBW The forerunner to Skulpt 3D !!! + Y
PU048 DYNAMITE FONTS II CutNPaste fontscreens Y
PU049 DYNAMITE FONTS More CutNPaste Fonts Y
PU055 ELECTROCAD DEMO circuit designer +
PU058 FONTS AND RAM MANAGER BIG video fonts+
PU059 FONTS & SURFACES Backdrops & fonts+ Y
PU062 GRAPHICS UTILITIES Various misc. programs+Y
PU063 HAMLAB PRO V2.08Convert VGA PC >IFF/HAM+ Y
PU064 HARDDRIVE UTILS MRBackup & FixDisk & more+Y
PU065 ICONMANIA Program icons & more !+ Y
PU066 ICONS Cramm packed with icons !+ Y
PU067 IMPLODER V4.0 Megacrunching Util+ Y
PU069 JAZZBENCH Alternative Wb for 1.2/3 users.
PU071 JR COMM 1.02 Modem users comms package Y
PU072 METALLION UTILS Font Editors & more utils+ Y
PU073/76 KING JAMES BIBLE Old&New testaments (4)+ Y
PU078 M-CAD Hires design package. Excellent + Y
PU080 MESSY-SID 2 Read/Write PC Files. Brilliant!+ Y
PU083 MORSE PROGRAMS for the radio hams. Y
PU086/7 NORTH C 1.3 (2) Complete C compiler & libs+ Y
PU088 NORTH C 1.3 This is the packed 1 disk version!+Y
PU095 PRINTER DRIVER GENERATOR & new drivers+ Y
PU097 PRINT STUDIO V1.25 Prints pics & text etc.+ Y
PU108 ROT A simple 3D drawing package.Very popular.+Y
PU109/10 (2 disk) Structured clipart for Ppage + Y
PU112/3 SOMETHING FOR NOTHIN Video Utils&Fonts+ Y
PU115 ST EMULATOR Run Atari ST software !! 2 Drives
PU117 SUPERKILLERS Virus Killers! You need this! +
PU121/2 TV GRAPHICS Dpaint backdrops&Fonts+(2) Y
PU124 ULTIMATE ICONS Iconmaster,Iconlab,+ Y
PU125 ULTRAPAINT v3 A nice paint package!
PU129/30 VIDEO APPLICATIONS Video utilities+ Y
PU136 ZX SPECTRUM EMULATOR Now with sound +
PU139 GRAPHICS CONVERTERS PC>AMigagfx Converter
PU140 LITTLEBENCH File copier & utils Dos2 only
PU143 OPTIUTILS 1 Crammed full ! Get it+ Y
PU144 OPTIUTILS 2 Get this disk too ! + Y
PU149 ELECTRONIC PROTOTYPER Veroboard designer Y
PU152/66 CLIPART SET: 15 Disks of the BEST clipart +Y
PU167 MULTI-PLOT Superb data plotting program ! +
PU169 GELIGNITE FONTS CutNPaste fonts!+
PU172 WORDPOWER Solve Anagrams/Crosswords+ Y
PU174 ASTRO 22 professional astrology now V3.0! +Y
PU175 GELIGNITE FONTS II Excellent IFF fonts+Y
PU176 GELIGNITE FONTS III More of above!!+
PU177/8 BENCHMASTER Windowsbench & Messysid!!
PU180 RICHARD SMEDLEY COMP Vat Checker & more.
PU182 STOCK ANALYST Technical analysis program+Y
PU183 AMYGEN Excellent geneology program+Y
PU184 PROCALC V1.0 Professional calculator.
PU185/8 COSMOPOLITAN FONTS (4) Packed with fonts+Y
PU189 TRONIK VIRUS KILLERS 21 virus killers & docs!Y
PU191 LANDBUILDER fractal land generator+Y
PU192 SID 2 Get this ! directory util !!! MEGA!+Y
PU197 MOBED 2 Dpaint for Sprites & bobs+Y
PU198 VIDEO WIPES Masks & fades Dpaint 3/4 +Y
PU200 LITTLEBENCH 1.3 Now for 1.3 owners!
PU201 MALICE FONTS Exelent tiny fonts for Dpaint!+Y
PU202 CYCLOPS Weird Plasma/fractal creator ! +Y
PU203 SCOPE 184 utils & clips for Ppage Y
PU204 GATOR GRAPHICS Dpaint tutorial disk. +
PU205 PC TASK PC Emulator Now Version 2 VGA! +Y
PU207 MULTISID Combine SID2 & Multidos(PC>AMIGA)+Y
PU208 ASI HANDYTOOLS 3 mega compilation of utils Y
PU209 FRED FISH CATALOGUE contains FISH 1 - 880 +Y
PU210 PCQ PASCAL Latest version of this pascal compiler+
PU211 AMIGA PUNT A horse race predicting program!+Y
PU212 PERM CHECK PLUS a pools prediction prog Y
PU213 RACE RATER Another horse racing program! +Y
PU215 CAPTIONATOR Superb shareware video titling!+Y
PU219 WBHACKS+ collection of hacks for + owners+ Y
PU221-225 8 COLOR ICONS Hundreds of new icons +Y
PU226/7 C-EYES FONTS For use in Dpaint, WB, etc.(2)+Y
PU229 JPEG 24 bit graphics compression util disk! +Y
PU230 MORE PRINTER DRIVERS new printer drivers!+Y
PU231/5 PAGESTREAM FONTS 5 disks super fonts!+ (5)Y
PU236/7 SCOPE197/8 Adobe type fonts, 2 disks full! +Y
PU238/9 M.O.R.C. Mouse operated rune caster,oracle !+
PU240 FREECOPY V1.4 powerful disk copying program!+Y
PU241 CALORIE BASE Useful for people on a diet!+Y
PU243 ASPICE Circuit analysis program! +Y
PU244 BON APPETIT This is a recipe database program!+Y
PU245/256 C MANUAL Latest version on 12 disks! (12) +Y
PU257/61 PAGESTREAM FONTS 2nd set of fonts!+Y
PU262 RICHARD SMEDLEY COMP II Mortgages etc!+Y
PU263 LYAPUNOV Fabulous & unusual fractals!!+Y
PU264/8 OUTLINE FONTS For Pro pagev3 ONLY!!+Y
PU272 GOLF RECORDER Database for golf scores!+ Y
PU273 PC<>AMIGA Similar to Messysid. + docs!+ Y
PU274 TRONICAD V1.0 Electronic circuit design!+Y
PU278 GELIGNITE FONTS IV Yes more Iff fonts!
PU279 V MORPH V2.30 Yes a PD morphing prog!!+ Y
PU280 POOLS WIZARD Pools prediction,save disabled+Y
PU282 ASI MULTIVISION 2 Imagelab,Wasp & more,super+Y
PU283 CYCLING MILEAGE RECORDER Useful! +Y
PU284 DART MACHINE Dart score recorder! +
PU285 WORKBENCH 3 BACKGROUNDS, 1200 ONLY!
PU286 INSCRIPT Program for Video titling! +Y
PU287 NUMPAD Numeric keypad emulation!(600 ONLY)
PU288 ENGINEERS KIT Test your Amiga system! +Y
PU289 AUDIO ANIMATION STUDIO Create your own! +Y
PU291 1200 WORKBENCH HACKS Useful utils! Y
PU292 1200 UTILS1 Gif & PCX datatypes etc!A must!Y
PU293/317 25 disks of Ham radio software! (25)+Y
PU318 POWER UTILS Utils written in Can Do! +Y
PU319/23 OUTLINE FONTS For Pro page 2.1 or 3!(5)+Y
PU324 WINEMAKER Database for winemakers! +Y
PU325 EZASM LAZI & A68K Programmers disk! +
PU326 PLOTTER Plots two dimensional functions!+Y
PU327/8 X BENCH all round replacement! (2) +
PU329 BCFORTRAN77 Programmers development system+
PU330 SLEEPLESS NIGHTS Utils useful for 1200!Y
PU331/43 COLOUR FONTS(ASSIGNABLE)(13) +Y
PU344 EXEL Nice Cardfile type database program! +Y
PU345 AMOS PRINTER Print screen from within Amos! +Y
PU346 EXOTIC RIPPER V2.10 Soundtracker ripper! +Y
PU347 RAVE GENERATOR Plug in a sampler(1mg chip)+Y
PU348 SPEED UTILS Fixdisk Headclean Snoop & more!+Y
PU349 NCOMM V3.00 The latest version comms disk! +Y
PU350 KINGFISHER Fish database 1-840 (packed) +Y
PU351 ASI FIX DISK Get old programs running on dos2/3+Y
PU352 HP 550C & Cannon Bubblejet printer drivers! +Y
PU353 TAB MASTER Music to Guitar translator prog! +Y
PU354 ASTRONOMY v2 calculate info on solar system! +Y
PU355 SUPERDARK Superb & unusual screen blanker! +Y
PU356 FONTFARM Contains 55 large & Small fonts! +Y
PU357 CANON PRINT STUDIO A must for BJ owners! +Y
PU358 PPAGE TEMPLATES,GENIES etc. Very useful!+Y
PU359 PRO PAGE HELP DISK Extremely useful disk!+Y
PU360 WINDBLEND Super effects but 1200 only! Y
PU361 XPK COMPRESSION UTILS compression progs!Y
PU362 STARVIEW Gives view of star for given time etc!+Y
PU363 FORCASTER Horse racing prediction program! +Y
PU364 COURSE FORM Simple horse racing prediction!+Y
PU365 ATTIC & BLITT Useful to C programmers! +Y
PU366 WB2 UTILS Full of obscure but useful utils! +Y
PU367 PE PRINT UTILS Lots of useful labelling progs+Y
PU368 IMAGEBASE RUNTIME Standalone for CLU27+Y
PU369 TV TITLES DEMO Shareware Titling program! +Y
PU370 24 BIT UTILS Rend 24 & more useful utilities!+Y
PU371 AMOS PRINTER ROUTINE For own Amos progs!+Y
PU372/3 PARNET SOFTWARE Link 2 Amigas! (2)+Y

ANIMATIONS

PA039 ERIC-S AMY VS WALKER Cute & sexy! 1.5M Y
PA040 ERIC-S BATMAN vs JOKER Very funny!!!+Y
PA042 ERIC-S COYOTE STRIKES BACK 1mg too! +
PA043 ERIC-S MORE AEROTOONS Very witty !!!+ Y
PA045 ERIC-S STEALTHY II Mig 29 vs Stealthy !+Y
PA053/4 LIGHT CYCLES (2) Tron animation+
PA060 NEWTONS CRADLE RT animation +Y
PA065/68 REAL 3D (4) Superb of the program+
PA070 SHUTTLECOCK ANIM 2 shuttles+satellite+Y
PA072 THE JUGGLER A classic amiga demo!+ Y
PA074 THE WALKER vs The Helicopter - Mega !+ Y
PA075 THE WALKER vs A2000 A classic ! + Y
PA086 FRACTAL ANIMATION full screen low flying anim+Y
PA091/3 GAS TURBINE, STEAM & PETROL ENGINE (3)+Y
PA094 AMY JOGS,WALKS & SNEEZES by E Schwartz! +Y
PA095 HOW TO RUN INTO A WALL by Eric Schwartz! +Y
PA099 ATF AGILITY new ES anim, very witty as usual+Y
PA100 VTOL CONTEST Check out this new ES anim ! +Y
PA101 DOLPHIN DREAMS Great Dolphin anim! + Y
PA103/4 KINGFISHER 2 Superb bird animations!+ Y
PA106/7 THE JOURNEY Fab fractal pics & anims(2)+Y
PA109 SATURN ORBIT Ray traced flight around Saturn+Y
PA118 3 SCHWARTZ Skydive,Soft landing & bomber! +Y
PA119 STEAM ANIMATION V2.0 Now with sound! +Y
PA120 TWO STROKE PETROL ENGINE Super anim+Y
PA122/3 THUNDERBIRDS ANIM Nice animation! (2)+Y
PA124 ANIM COMP 10 mini animations compilation! +Y
PA126/7 PHOTONIC DREAMS Room & Star animations! +Y
PA131/40 10 disk set Steve Packer anims!(1200 ONLY)
PA141 STIRLING II ENGINE Another fab engine anim!+Y
PA142 NIGHTBREED AGA FRACTAL FLIGHT Colourful! Y
PA143 XMAS ANIMATION Amusing animation! +Y
PA144 LET ME OUT Amusing dog & slipper animation! +Y

AGATRON(Ok 1200!)

AGA01 RED LOTUS Spinning down the road. Fantastic !+
AGA02 JET FIGHTER landing on a runway, basic anim +
AGA03 STAR TREK - Shuttle fly past - Great ! 1m +
AGA04 KLINGON CRUISER Flying around your screen !+
AGA05 STAR TREK KLINGON fires torpedoes 1m +
AGA06 LOGO, plus a great star wars fly by animation.+
AGA07 STAR WARS FIGHTER doing loops etc 1m +
AGA08 STAR WARS, a great anim from the movie (CLI)+
AGA09 STAR WARS - Fighter fly by, impressive 1m +
AGA10 STAR TREK - Enterprise in dry dock. Incredible+
AGA11 TRON - Tank v Deactivator. Good vectors +
AGA12 TRON ANIMATION - Not one of the best +
AGA13 ROBO 1 A nice ray traced robot waving 1m +
AGA14 STAR TREK Workbee & Reliant. 3 shots +
AGA15 LOTUS CAR, Billiards, & Jet Fighter animations! +
AGA16 STAR TREK Various anims from the star trek game.+
AGA17 STAR TREK TWOK animation Short but okay +
AGA18 STAR TREK - Enterprise fly by. Short anim +
AGA19 BOND ANIM - Copter plus a car, not too amazing+
AGA20 Huey 2 A helicopter leaving a landing pad.+
AGA21 ENTERPRISE DOCKING WITH SPACE STATION+
AGA22 ENTERPRISE APPROCHING stunning anim ! 1M +
AGA23 FLEET MANOEVRE Stunning animation! 1m +
AGA24 KULI PEN animation & Ping pong. Great! 1m +
AGA25 THE RUN , a suberb car chase 1mg +
AGA26 SHIP ROCKING at sea,/enterprise leaves dock+
AGA27 BOOK OPENING Nice anim of a book opening.+
AGA28 SHUTTLE & ENTERPRISE Fab anim by Richter+
AGA29 MILLENIUM FALCON The ship being chased -1M+
AGA30 HYPERSPACE animation & Landing animation 1m +
AGA31 PORSCHE anim rising out of table 1 mg. +
AGA32 SPACE - Space probe flying away 1m +
AGA33 PROBE Bird of prey animation & Klingonhit! 1m+
AGA34 SPACE OFFICE Star trek anim, a little short +
AGA35 SPACE PROBE, great anim of probe zooming off!+
AGA36 BIRD OF PREY, loop the loop animation 1m +
AGA37 TOBIAS GOES KNACKERS - Check this out ! 1m +
AGA38 TOTALLY WICKED ! Shuttle & Enterprise (2 MEG)
AGA39/53 AGATRON SPECIAL! Yes, a 15 disk anim!+Y
AGA54/62 AGATRON SPECIAL! a 9 disk anim, fans only+Y

POWERANIMS

PP001/2 ANTI LEMMINGS (2) This is Brilliant! 2M
PP003 AT THE MOVIES Cute anim of Amy squirrel 1.5M+Y
PP004/7 AUTOMATED LIGHT (4) Battlestar galactica! 3M
PP008/10 BUZZED (3) Great anim of wasp crashing! 2M
PP011/12 DATING GAME (2) Very witty!, Get it. 3.5M!
PP016 GULF WAR Another ES production! Good 2M! Y
PP018/20 LOST IN SPACE (3) Good cult TV anim! 2M
PP021/4 LANDING (4)Tobias Richter poweranim 4M!
PP025/27 STATION AT KHARN (3) Incredible 2M demo Y
PP036/7 WALKER DEMO (2) A 2mg version of a classic!
PP040/43 AT THE MOVIES II (4) Hilarious ! 1mg>3mg
PP044/45 AMY V WALKER II (2) Another witty ES demo 3M
PP046 SWEET REVENGE Coyote vs Roadrunner ! 1.5mg+Y
PP050 UNSPORTING Wicked aerotoon by Schwartz+ 2M Y
PP051/2 CHARLY CAT Super Shwartzlike cartoon! 2mg Y
PP053/4 CHARLY CAT AT THE BEACH 2nd fab anim 2mg!Y
PP057/9 CHARLY CAT CATCHES A CANARY Fab! 3MG.
PP060/3 CHARLY CAT MOUSTERMIND Great! 3.5MG.
PP064 DUNCAN DUNG BEETLE Unusual 2mg animation! Y
PP065/6 CHARLY CAT SNOWJOKE Latest anim 2mg.+ Y
PP067/9 SPEED LIMIT 3mg motorcycle race! + Y (3)
PP070/1 LEMMINGS REVENGE Very amusing anim! 2mg Y
PP074/6 G.I. SPY 3mg anim from charlie cat author! (3)
PP077/84 THE HAUNTED Tremendous animation,3mg!(8)
PP085/7 THE AD Strange swartzlike animation! 3mg (3)
PP088/9 SPORTING DOO DOO Nice new animation! 2mg(2)
PP090/1 ROADHOG ANIM Very funny 2mg animation!(2)Y
PP091/2 SPAR TREK Amusing animation, 2meg (2)Y
PP093/98 DUNK'S BACK New Duncan anim,5 disks 4 mg!
PP099/100 AT THE FLIX Charlie cat again! (2) 2mg
PP101/4 QUALITY TIME Superb Shwartz 5mg anim (4)!
PP105/6 SATELITTES REVENGE Good anim!(2) 2M.
PP107 DAMBUSTERS Lancaster bomber fun! 2M.
PP108/10 CHARLY CAT IN SICKNESS & HEALTH!(3)3mg!
PP111/2 BUGSBUNNY & SPACEMEN Action packed!2)2mgY
PP113/4 CALVIN & HOBBES Super animation!(2) 3mg.
PP115/6 SPAR TREK3 BATTLESTATIONS Fun! 2mg (2)
PP117/8 PRANK ON FURBALL Cat has a pizza! 2mg (2)
PP119 BAITMASKING Another fun Shwartz anim 2mg(2)Y

DEMOS

PD002 ALARM MEGADEMO Acid type video demo!+Y
PD005 AMOS 3D DEMO Shows some great effects!+Y
PD016 CHAOS ROCK Fab light show with fractals!+
PD023/25 ALCATRAZ MEGADEMO Huge, on 3 disks!+
PD066 PHENOMENA ECES light sourced vectors! +
PD068 PHENOMENA ENIGMA Absolutely brilliant! +Y
PD076 PLASMUTEX Good plasma & great music +
PD077 PMC ALPHA OMEGA Superb vector demo+
PD093 SCOOPEX CHROMIUM Superb demo.+Y
PD094 SCOOPEX MENTAL HANGOVER A classic+
PD097 SILENTS GLOBAL TRASH Incredible!+
PD121 DIVINA TECHNO FRIGHT Unusual! +
PD124 ANDROMEDA DECAYING PARADISE Good! +
PD130/34 ALCATRAZ ODDESSY Awesome! Ok on 500+!
PD142 FINAL CONFESSION Music & Plasma effects!+Y
PD154 DECAY GET FROGGED Superb quality! +Y
PD159 ANARCHY IN THE KITCHEN Some good FX Fab!+
PD164 DESIRE MENACE Good Psycho rave demo +
PD165 DARK DEMON Mega new demo .... get it+Y
PD169 BIG BANG Excellent spacey-type demo+
PD170 PIECE OF MIND Good 3D vector effects. +Y
PD171/2 SILENTS EXPOSE(2) Incredible Get it !+Y
PD177/8 TRSI TIME ZONE New, some good effects!+Y
PD181 CINEMORPH Fab morphing of 4 faces! 1mbchip!+Y
PD182 SPACEBALL Absolutely brill,needs 1meg chip!+Y
PD183 DIGITAL LETHAL EXIT Good vectors demo! +Y
PD184 ANDROMEDA MINDRIOT Very good vector demo! Y
PD185/6 ANDROMEDA MIRROR Fab Music & Graphics!+Y
PD187 HOY AGA DEMO 1st 1200 demo,a must! 1200 ONLY
PD188 SANITY WORLD OF COMMODORE Super demo+Y
PD189/90 SILENTS DEMON DOWNLOAD Fab demo! (2) +Y
PD194/6 DETONATION 3 disk pic & anim set!(3)+Y
PD197 MOBIL DESTINATION UNKNOWN by Spaceballs+Y
PD199 TRSI MISERY DENTRO Unusual effects! +
PD200 PHOENIX DEMO inc Flashy rave demo!+Y
PD201 1200 INTROS Yes, some AGA intros at last! Y
PD202 TECHNOLOGICAL DEATH Freaky techno rave +Y
PD205 FAIRLIGHT ILLUSION Good demo 1mg chip! +Y
PD206 MELON HOW TO SKIN A CAT Nice effects! +Y
PD207 NEMAL BOUNDLESS VOID good effects & music+
PD208 HOI AGA DEMO 2 2nd fab demo for 1200 only! Y
PD209 STONE ARTS ATMOSPHERE Nice demo,!+Y
PD210 ANARCHY 3D DEMO Superb effects.+(not1200)
PD211 POSEIDON CEREBAL LOBOTOMY Great,not1.3+Y
PD212 KEFRENS DANE A short but nice demo! +Y
PD213 TROJAN TECKNO TRACKS Amazing effects!!+Y

MUSIC DISKS

PM001 100 GREATEST 64 TUNES 100 fab 64 tunes!+
PM010 AMEGA PARTY WINNERS Four WICKED songs+ Y
PM016 BEATLES SONIX Nice music +Y
PM018 BEATMASTER I LOVE TECHNOLOGY Rave ! +Y
PM019 BRUNO's MUSIC BOX II Superb jazz funk music +Y
PM020/21 BRUNOS MUSIC BOX III Jazzfunk. Get it ! +Y
PM026 DEPECHE MODE MUSIC Soundtrackered tunes! +Y
PM027 D-MOB MUSIC 3 House music remix, good! +
PM030/34 DIGITAL CONCERTs 2-6 Excellent house/dance
PM052 KEFRENS JUKEBOX Lovely music & juke box! +Y
PM058 MAG FIELDS CHIP FESTIVAL Full of chip music!+Y
PM059 MANIACS OF NOISE This is brilliant!+
PM065 PHENOMENA MUSIC DREAMS 1 20 fab songs +
PM073 SILENTS FULL POWER House it up music! +
PM074 SOUND OF SILENTS Jut get this its mega!
PM092 PIANO TUNES Nine piano songs- good + Y
PM096 STAIRWAY TO HEAVEN Rendition of the song+Y
PM100/103 MANIC RAVES II Fantastic rave stuff(4) !
PM104 500 THINGS COMEBACK 4 great rave type tracks+
PM105/6 KEFRENS MEGAMIX Fabulous dance music+
PM112 TECHOMANIA II 8 essential hardcore tunes+
PM113 PROTON GATES OF TIME 6 good pieces of music+
PM114 UPROAR SPLIT BEAVER MIX rave megamix +Y
PM117 MUZAK OF THE WORLD original Amiga music! +Y
PM120 IDEAL MODE AEROSOL EP Go raving mad +
PM121 NIGHTBREED MUSIC DEMO II Rave music +Y
PM122/4 PLAYSID 2 (3) You must get this !!!! +Y
PM125 PLAYSID inc.RobHubbard, ManiacsOfNoise + Y
PM134/5 SOUNDS OF SCIENCE (2) Absolutely Brillian
PM137 KEFRENS MEGAMIX II Very good !! dance music
PM154 PULSE Yes, pulsating rave music again!! +Y
PM155 VINE O-RAVE 5 more good rave tracks!! +Y
PM161 CYBERNETIX 19 songs packed on 1 disk!+
PM162 MORE MED TUNES Fab tunes by Alex St
PM163 OCTASTUFF Some good 8 track tunes! + Y
PM164 OCTAROCK 3D More 8 track & 3d graphics! +Y
PM167/8 JESUS ON ES Crazy rave music demo! +(2)
PM170/2 LUNATICS INFINITE DREAMS Great music
PM173 CDTV MUSIC Super graphics & sound, 8 track
PM176 TUNE UP THE BASE Killer Rave music disk! +Y
PM179 PLAYSID V2.2 More old 64 style music! +Y
PM180 HARDLINE BLACK ENERGY Nice music disk! +
PM181/2 PASTEL VANILLA Super cool amiga music! (2)
PM185 ASI MUSIC VOL1 4 large songs with hifi graphics
PM186 ASI MUSIC VOL2 7 songs with hifi graphics! +Y
PM187 STATIC BYTES KUGLEPOLEN 7jazz+rock tunes
PM188 SIDMANIA VOL1 7 hours of C64 chip music! +
PM189 CHIP 'N' DIP 20 chip music tunes & anim! +Y
PM190/1 DANCE TRASH 2 disk set of rave music(2) +Y
PM192 HOBBITS & SPACESHIPS music by Dr Awesome
PM193 BRAINSTORM MUSICLAND 2 Nice music disk
PM194/5 ULTIMATE ACTION MEGA MUSIC Fab (2)+Y

CLASSICAL MUSIC

PM012 AMIGADEUS CLASSICAL Eine Kleiner etc. + Y
PM022/23 CLASSICAL MUSIC Bach, Handel etc +Y
PM035 DIGITAL DEBUSSY Fab Rob Baxter conversions
PM036 DIGITAL DEBUSSYII classic Debussy music!+ Y
PM070 RHAPSODY IN BLUE tracked by Rob Baxter! 1M
PM082a/82b VIVALDI - FOUR SEASONS (2) V.Good !+Y
PM090/91MOZART HORNCONCERTOS need 1mg chip
PM130/2 BACH BRANDENBURG CONCERTOS 1 to 6
PM150 DESKTOP HARPSICHORD RECITAL Classical
PM165/6 NUTCRACKER SUITE Super rendition!+
PM174 CLASSIC WORKS Grieg & Bach classics! +Y
PM175 SONIX MUSIC Some nice scores here!(loadwb)
PM183 CLASSIX GOLD Bach Toccata & Fugue (1mg chip
PM184 MOZART FLUTE CONCERTOS 1mg chip! +Y

CLASSICAL LITERATURE

Super books on a disk, perfect for English Literature revision(ok 500+,600, 1200)

LIT1 Midsummer nights dream, Macbeth, Julius Caesar Anthony & Cleopatra
LIT2 As you like it, Lovers complaint, Cymbeline, Hamlet
LIT3 Romeo & Juliet, Passionate pilgrim, Phoenix &Turtle,Sonnets Coriolanus
LIT4 Twelfth night, Venus & Adonis, Troilus & Cressida, Love labours lost
LIT5 Two Gentlemen of Verona,A Winters tale,Rape of Lucrece,Pericles
LIT6 Othello,Much ado about nothing, Measure for measure
LIT7 Henry the Sixth (Parts 1, 2, & 3)
LIT8 Henry the Fourth (Parts 1 & 2), Henry the Fifth
LIT9 Richard the Second, Richard the Third
LIT10 Henry the Eighth, King John, King Lear
LIT11 The Taming of the Shrew,The Tempest,Timon of Athens,Titus Andronicus
LIT12 All's well,Comedy of errors,Merchant of Venice,Merry wives of Windsor
LIT13 WORKS OF MILTON 1 Paradise Lost
LIT14 WORKS OF MILTON 2 Poems, Sonnets etc
LIT15 WORKS OF HOMER The Iliad (2 disks)
LIT16 WORKS OF HOMER The Odyssey
LIT17 MARK TWAIN Tom Sawyer
LIT18 MARK TWAIN The Prince & the Pauper
LIT19 LEWIS CARROLL Alice in Wonderland & Alice Through looking glass

SLIDESHOWS

PS002 ADVANCE HAM Really stunning !+ Y
PS008 AIRCRAFT SLIDE Pics of fighter aircraft+Y
PS009 ASTRONOMY SLIDE very impressive!+Y
PS013 BORN TO BE FREE wild animals +Y
PS033 GERMAN RAY TRACE Superb See these !+
PS039 INVISIBLE WORLD yuch, bed bugs etc!+
PS045 KELLY S/S Some quality HAM pictures.+Y
PS056 NEWTEK DYNAMIC HAM 640x512 4096 color
PS062 NW DYNAMIC HAM Nik Williams Superb quality
PS072 SUPER HAM CARS This is a must-Mega!+ Y
PS086 SONIC 5 Superb D-HAM 4096 colour pics+
PS090 FRACTALGEN Incredible fractals etc +Y
PS101 ANALOGUE SLIDE Ray traced space pics!+Y
PS103 DYNAMIC HIRES 2, 4 fantastic quality pictures!+
PS107 ALCATRAZ MUSEUM Superb pictures! +
PS115 THE GATHERING 93 Stunning pictures here! +Y
PS117/8 NIGHTBREED AGA SLIDESHOW Super(2)1200
PS119 CYNOSTIC SLIDESHOW Superb pictures!1200 only
PS120 KEITH RHODES SLIDE 3 fantasy pics!1200 only
PS121 MANDLEBROT MANIA 5 moving mandlebrots!
PS122 FERRARI AGA great 256 colour pics! (1200 only
PS123 CYCLIC ART Fantastic colour cycling disk! +Y

MUSIC UTILS

PT001 ALGORYTHMS Create weird midi tunes
PT002 ART OF MED Excellent !+ Y
PT005 CASIO CZ EDITOR 250 patches ! +
PT009 K1 IFF SAMPLES Fabulous samples +
PT011 KAWAI K1 editor for patch changes!
PT012 KAWAI K4 editor as above!
PT013 MED 3.2 Excellent music seq. + Y
PT015 MIDI DISK Various midi stuff +
PT020 ST-01 - ST-10 Samples--Ring for details
PT021 SOUNDTRACKER 2.6 Excellent, ok plus!+Y
PT025/6/7/8 ST-90-93 SAMPLES Studio quality+ Y
PT029 YAMAHA DX7 VOICE FILER for DX7 synths!
PT030 YAMAHA DX7 VOICE SORTER for the above !
PT031/2/3 ST-87 - 89 3 disks full !+Y
PT034/5 ST-97 & 98 More samples !+Y
PT038 YAMAHA DX100,TX81Z, DX27,DX11 & FB01 editor
PT039 SUPERSOUND II Superb sampling software! +Y
PT040 OCTAMED V2 8 channel MED sequencer!+
PT041 NOISEPLAYER 4.0 Multitasking module player+
PT042 START IFF SAMPLES Superb ! Get this disk!+Y
PT043/5 HOUSE SAMPLES 3 disks full of house samples
PT046 AUDIO MAGIC3 Super trackers disk, ok on 1200
PT047 AUDIO MAGIC4 More Superb music programs
PT048/52 MODULES 5 disks of large music modules!+Y
PT053/57 METAL MODULES 5 disks heavy rock/metal
PT058/62 BREAK BEATS 5 disks of good drum samples
PT063/67 VOCALS 5 disks of super vocal samples!+Y
PT068/70 DRUMKITS 3 disks of high quality drums!+Y
PT071/73 KORG SAMPLES 3 disks of keyboard sounds
PT074/76 PURE SAMPLES Lots of assorted samples!+Y
PT077 SAMPLE FACTORY Disk full of sound effects!+Y
PT078 CHIPMAN SAMPLES over 70 samples here!+Y
PT079 MUSIC BASE V1.0 A musical database! +Y
PT080 XI RAVE SAMPLES Bass & Drums! +Y
PT081 SAMPLEMAKER V3.1 Make samples,New version

AMOS PD

APD036 AMOS UPATER LATEST VERSION v1.36 + Y
APD237 SHAPES Excellent kids game !+Y
APD257 CASSETTE LABELLER + MIXED SOURCE+Y
APD271 WIZARDS DOMAIN graphical adventure+Y
APD341 TOTALLY AMOS Good read for programmers
APD347 NOTEBOOK & SHOPPING LIST Easy to use
APD363 FAMILY HISTORY DATABASE Latest version
APD373 COMPILER 1.36 UPDATE, LATEST compiler
APD382 AMOS HANGMAN Good version of the game!
APD385 CHASER,RATTLESNAKE & MAZEMAN Games
APD431 KARATE WORM II Latest version of game! +Y
APD442 SLIDESHOW CONSTRUCTION SET V2! +Y
APD451 NODDY,S PLAYTIME Educational demo! +Y
APD542 RAMOS PRO For Amos Professional! +Y
APD456 TOP OF THE LEAGUE Football manager!+Y
APD466 AMOS PRO UPDATER V1.12 Just in!!! +Y

NEW!

PG282 SERIOUS BACKGAMMON DEMO Super version
PG283/4 EXORCISM Good 2 disk adventure+graphics
PG285 FUN WITH CUBBY DEMO 1 level of CLR game
PG286 MYSTERY 2144AD Nice text adventure! +Y
PG287 MARKSMAN1 Shooting games for Trojan light
PG288 MARKSMAN2 phaser or mouse,good graphics
PG289/90 NECESSARY ROUGHNESS American football
PG291 TITANIC CHEATS Hundreds of useful cheats!
PG292 NUMTRIS Version of Tetris with numbers! +Y
PE047 ASI BACK TO SKOOL1 Style Count & Words
PE048 ASI BACK TO SKOOL2 Simon Cal maths train
PU374 1200 UTILS 3 More new 1200 utilities!+Y
PU375 POOLS TOOLS2 3 pools related programs!+Y
PU376 KITCHEN UNITS Requires Introcad program!
PU377 MING SHU Simple astrological program! +Y
PU378 GRAPHPRO V1.1 Shareware graphics program
PA145 SUNJETS ANIM Nice anim of jet planes! +Y
PD214 TALENT PANTA RHEA realtime 3d fractals1200
PM196 MUSIC OF ROMEO KNIGHT Suberb music
PM197 ANCHORMIX 93 3 big tracks + strobe graphics

ORDERING MADE EASY

BY POST: send your Name, Address & Order details with a Cheque / PO / IMO to any of the companies listed
BY PHONE: Call us with your card number expiry date and details for a 1st class service. All major cards accepted
PD PRICES: 1 - 5 disks £2.00 per disk • 6 - 25 disks £1.25 per disk • 26 or more disk are still only 99p per disk !
POST & PACKING: UK - 50p • UK 'Recorded Delivery' £1.25 • Europe +25p per disk • Rest of World +50p per disk
REMEMBER: We stock Fish 1-900, Tbag 1-74, Amos, Scope, Snag, Amicus, Amigos & lots more superb PD disks!!

PLEASE NOTE:
All disks on the advert should work on the Amiga 1.2/1.3 dos systems unless otherwise stated! All disks with a "+" sign should work on the Amiga 500+ & 600 machines!
However there are so many different setups now in use it is becoming impossible to test for every possible variation, so please use some caution especially with A1500/2000 with various dos systems, CDTV and of course the new Amiga 1200 & 4000 systems. Disks marked with a "Y" should be okay on the A1200 / 4000 though obviously not yet extensively tested. Please take care!

VISA

MasterCa

Dmain Distributors

not the imitators !

Most CLR titles ok on A1200!

.. The Central Licenseware Register ..

Commercial Quality programs at a PD price !

Most CLR titles ok on A1200!

EDUCATIONAL

CLE01 TOTAL CONCEPTS DINOSAURS Learn your family all about the amazing dinosaurs! 2 disks 4.50. +
CLE02 TOTAL CONCEPTS GEOLOGY Superb book on a disk by Chris Hill, learn all about the rocks! 2 disks 4.50. +
CLE03 TOTAL CONCEPTS SOLAR SYSTEM A superb illustrated guide to our Solar system! 3 disks 4.99. +
CLE05 A-CHORD Teaches you all the chords you need to play the guitar, become the next Eric Clapton! 1 disk 3.50. +
CLE07 TOTAL CONCEPTS FRESHWATER FISHING Learn all about freshwater fishing! Comes on 2 disks 4.50 +
CLE08 NIGHT SKY Features over 1500 stars,sky can by displayed as seen from anywhere on earth! Exellent! 1 disk 3.50. +
CLE09 WORDS & LADDERS Good spelling program. 1 disk 3.50.+
CLE10 BASICALLY AMIGA Extensive guide to Amigados! Very good program for beginners. 3 disks 4.99! +
CLE11 LET'S LEARN For children of 5-7 years, progress through 5 levels of difficulty, Sums tunes etc. 1 disk 3.50. +
CLE12 ALPHABET TEACH Simple to understand spelling program for the kids! Shows picture,asks for word. 1 disk 3.50! +
CLE13 HOME BREW Create your own! 1 disk 3.50. +
CLE14 TOTAL CONCEPTS ECOLOGY Learn about the most important "ology" in our lives! Superbly illustrated! 3 disks 4.99. +
CLE15 FAST FRET This is a guitar scales tutor, 1 disk 3.50. +
CLE16 KINGS & QUEENS A history lesson on all of the Kings & Queens of England since recorded history! 2 disks 4.50.+
CLE17 THINGAMAJIG An electronic jigsaw with 24 pictures, place the pieces correctly on the screen, by Len Tucker. 1 disk 3.50. +
CLE18 WORK & PLAY 3 educational programs: CLICK CLOCK learn the time,FUNTIME TABLES maths & GO SHOPPING! 1 disk 3.50. +
CLE19 PLAY IT SAFE Teaches safety in the home, Help Teddy make your home safe from the beasties! 1 disk 3.50. +
CLE20 BIG TOP FUN Four program,Word balance,Matchplay,Balloon burst & Seal a grams 1 disk 3.50. +
CLE21 JIGMANIA Jigsaw solving & construction set! 1 disk 3.50! +
CLE22 CHESS TEACHERteach chess in a fun way! 1 disk 3.50. +
CLE23 MIND YOUR LANGUAGE improve speech 1 disk 3.50. +
CLE24 SPEED READING This program tests your reading speed & helps you improve it! 2 disks 4.50. +
CLE25 CHORD COACH This is a superb Piano Tutor, learn the chords & hear the Amiga play them! 1 disk 3.50. +
CLE26 SNAP An educational game for languages., 1 disk 3.50. +
CLE27 C.A.T.T.This is a superb Tarot reading program! Now you can read your own! 2 disks 4.50! +
CLE30 PEG A PICTURE Make a picture from coloured pegs or coloured shapes, great for young kids! 1 disk 3.50. +
CLE31 UNDERSTANDING AMOS This set will really help you learn how to use Amos! (NEEDS AMOS) 2 disks 4.50. +
CLE32 SPITFIRE! Superb illustrated book on a disk covering the legendary WWII fighter plane! 2 disks 4.50.+
CLE33 MESSERSCHMITT BF109 Another super WWII book on a disk, this time the German Messerschmitt! 2 disks 4.50.+
CLE34 YOUR FIRST PONY Want to learn to look after & ride a pony? This will learn you all you need to know! 2 disks 4.50.+
CLE36 THE TIME MACHINE Teaches kids to tell time. 2 disks 4.50.+
CLE37 DISCOVERY AMERICA Learn all about the colonisation of the United States of America! 1 disk 3.50.+
CLE38 HOME INVENTIONS First in the quest for knowledge series, this picture book deals with inventions since 1750. 2 disks 4.50.+
CLE39 MY LITTLE ARTIST Superb colouring book for children,with features for disabled as well! Needs 1mg chip ram. 2 disks 4.50.+
CLE40 BOREALIS JUNIOR Drawing for young children 1 disk 3.50+
CLE41 BASICALLY MEDICINE multimedia encyclopedia 2 disk 4.50+
CLE42 COMPOSITION Photograph Tutorial disk. 1 disk 3.50
CLE43 AMOS LANGUAGE QUIZ Helps learn Amos. 1 disk 3.50+
CLE44 PORTRAITURE 2nd photo tutorial program. 1 disk 3.50+
CLE45 FUN WITH CUBBY 2 Another 7 fab kids games! 1 disk 3.50+
CLE46 BASIC HUMAN ANATOMY Good for education 1disk 3.50.+

UTILITIES

CLU01 VIDEO TITLER Create video titles! 1 disk 3.50! +
CLU02 FISH INDEXER database for the Fish library! 1 disk 3.50. +
CLU03 TYPING TUTOR Full typing course. Comes on 1 disk 3.50.+
CLU04 ALPHAGRAPH for producing Bar & Pie charts etc! 3.50. +
CLU05 S.A.S. MENU MAKER make your own menu's 1 disk 3.50. +
CLU07 PHILO Simple to use database system. 1 disk 3.50.+
CLU08 WORD FINDER crossword & anagram solver & 2 disks 4.50+
CLU09 PLAY & RAVE2 Music module linker. 2 disks 4.50+
CLU10 POWER ACCOUNTS account statements, income etc! 3.50.+
CLU11 CALC V1 very useful spreadsheet program! 1 disk 3.50. +
CLU12 VIRTUAL WINDOWS Notebook Address booketc1 disk 3.50.+
CLU13 DATOS A powerful database, many features. 1 disk 3.50. +
CLU14 STOCK CONTROLLER Keep track of stocks! 1 disk 3.50. +
CLU15 EPOCH VI calendar for Amiga,1299 yr diary 1 disk3.50.+
CLU16 CROSS STITCH good needlework program,1 disk 3.50 +
CLU17 LC10 FONTS Nice fonts for Star LC10 printer! 1 disk 3.50.+
CLU18 LC200 FONTS Fonts for your LC200 printer! 1 disk 3.50. +
CLU19 LC24 FONTS Fonts for your Star 24 pin printer. 1 disk 3.50! +
CLU20 CANON BJ10. Super Fonts for Cannon Bubblejet 1disk 3.50+
CLU21 INVOICE MASTER Sort out your invoices! 1 disk 3.50. +
CLU22 HARD DRIVE MENU Superb hard drive utility! 1 disk 3.50.+
CLU23 F15 ANIM BRUSHES Needs D paint! 1 disk 3.50.+
CLU24 RED LOTUS ANIM BRUSHES Needs D Paint 1 disk 3.50.+
CLU25 STARFIGHTER ANIM BRUSHES Need D Paint 2 disks 4.50.+
CLU26 STAR VOYAGER ANIM BRUSHES for DPaint 3 diskss 4.99+
CLU27 IMAGE BASE Simple to use authoring package 1 disk 3.50.+
CLU28 CREATIVE ADVENTURE TOOLKIT Needs 1mb chip . 3.50+
CLU29 G.F.X. Graphics convertors, sprite editors etc! 1 disk 3.50+
CLU30 DRAW SELECTOR V2 pools prediction program 1 disk 3.50+
CLU31 FLOWCHARTER For creation of flowcharts! 1 disk 3.50+

GAMES

CLG05 TRUCKIN ON Truck management simulation 2 disks 4.50 +
CLG06 OBLITERATION Super blast em up! (NOT DOS 2) 1 disk 3.50
CLG08 DRAGON TILES Superb version very addictive ! 1 disk 3.50 +
CLG09 MOTOR DUEL great 3d car racing game. 1 disk 3.50+
CLG10 FUTURE SHOCK Guide ball through maze! 1 disk 3.50 +
CLG11 ALL GUNS BLAZING 2 player , overhead view. 1 disk 3.50 +
CLG12 BULLDOZER BOB Clear screen of blocks! 1 disk 3.50 +
CLG13 PARADOX Another good puzzle game! 1 disk 3.50 +
CLG14 SONIC SMARTIEHEAD Crazy platform game! 1 disk 3.50.+
CLG15 SPLODGE THE ESCAPE puzzle platformer 1 disk 3.50+
CLG17 IMBRIUM Exellent graphic adventure! 1 disk 3.50+
CLG18 SKAN 29 Guide Sid through 220 levels! 1 disk 3.50. +
CLG19 STELLAR ESCAPE Vertical shoot em up! 3 disks 4.99. +
CLG20 JUNGLE BUNGLE Nice adventure game! 1 disk 3.50. +
CLG21 FLOWER POWER Gro before the bugs eat them1 disk 3.50+
CLG22 STOCKING FILLERS Seasonal Xmas games! 1 disk 3.50. +
CLG23 MARVIN THE MARTIAN A maze type game, 1 disk 3.50.+
CLG24 EASY MONEY fruit machine simulator! (Not dos 2 or 3) 3.50.
CLG25 WHITE RABBITS This is a good puzzle game! 1 disk 3.50 +
CLG26 MONSTER ISLAND Dungeon Master game! 1 disk 3.50.+
CLG28 TIME RIFT Game played over 4 time zones! 1 disk 3.50.+
CLG29 BILLY BALL Good 3d isometric game! 1 disk 3.50.+
CLG30 CAPTAIN K Nice platform game! 1 disk 3.50.+
CLG31 DIRTY RACKETS 3 tennis games on here! 1.5mg1disk 3.50.+
CLG32 7 BLOCKS stop the falling blocks! 1 disk 3.50! +
CLG33 BAT 'O' ROONS 2 player bat & ball game 1 disk 3.50+
CLG34 CYBERNET Sideways scrolling shoot em up 1 disk 3.50+
CLG35 OG Prehistoric caveman rescues girlfriend! 1 disk 3.50.+

Spitfire
BF109

FASTFRET
YOUR FIRST PONY
HOME BREW
TRAVEL FAR
BACK IN TIME

CLE028 FUN WITH CUBBY A superb educational disk containing 8 programs: Memory game,Paint studio, Count with Cubby, Apple catcher,Let's Spell,Typing tutor, Puzzler & Cubby's lost! This one is guaranteed to keep the kids amused for hours! Simply enter each subgame through a door, a superb value for money disk, supplied on 1 disk only 3.50.+

CLE035 TOTAL CONCEPTS SOLAR SYSTEM 2 In this sequel to our most popular title, Chris Hill brings you the very latest on the Solar System! All the very latest planetary missions are covered & if you thought the images in TC! Solar System were good wait until you see these 40+ images! This is a must if you have TC! Solar System. Supplied on 3 disks only 4.99.+

CLE029 PREHISTORIC FUN PACK This is a superb title containing four fun dinosaur games, Dinoslider a tiles puzzle game, Dinosaw is a jigsaw memory game. Snakes & caves is the old favourite snakes & ladders, and Eggstinct is a fun egg collecting game! Will keep the kids amused for ages! 1 disk 3.50.+

COMPTECH PRO COMMERCIAL CLIPART!

...brand new range of clipart designed exclusively for UPD! These images are of very high quality and detail and are priced at 3.50 per disk! All images are in ...format and may be imported into most packages! PC versions available!

TRIASSIC DINOSAURS CLIPART The first age of Dinosaurs! only 3.50!+
JURASSIC DINOSAURS CLIPART 1 Superb quality clips! only 3.50!+
JURASSIC DINOSAURS CLIPART 2 More super Jurassic art! only 3.50!+
CRETACEOUS DINOSAURS CLIPART 1 This is T rex's era! only 3.50!+
CRETACEOUS DINOSAURS CLIPART 2 Triceratops, T rex etc only 3.50!+

NEW WEIRD SCIENCE MULTIMEDIA TOOLKIT CD ROM!

This is a superb CD Rom, filled to the brim with over 10,000 files, 500 24bit jpeg images & 500 Ham8 & Ham interlace versions,Hundreds of megabytes of clipart, (iff black & white,colour and scaleable),Hunreds of iff fonts, Compugraphic fonts & coloured fonts, icons, music modules, music samples and lots more! Includes utilities to view & listen to the files, a front end menu program & slideshows! Superb for multimedia presentations! Works on CDTV, CD32, Amiga CD Rom & is also PC compatible onsuitable PC CD Rom!
Superb value only 19.95. +50p p&p.

2 JPEG IMAGES FROM CD ROM!!!

ENCAPSULATED POSTCRIPT CLIPART!

This superb quality clipart is structured clipart and as such must be used in professional software such as Pagestream, Pro page or any other which can import EPS clipart. Note that you may need a postcript laser printer to print these out(as in Pro page for example)
These disks are all 2.00 EACH!!

EPS1 Dining pictures.
EPS2 Medical & Weddings.
EPS3 Houses clips.
EPS4 Office & Business.
EPS5 Children US Insignia Places.
EPS6 Boats Food Moving.
EPS7 Buildings Chefs.
EPS8 Houses-bits Icons.
EPS9 Kitchen People Groups Holiday.
EPS10 Apartmentblocks Houses Town
EPS11 Animals & Sport.
EPS12 Aircraft Birds Shopping etc.
EPS13 Aircraft Big houses Males.
EPS14 Houses Old English Vacation.
EPS15 Books Females Light aircraft.
EPS16 House-foreign Helicopters.
EPS17 USA World & Music.
EPS18 Biplanes EPSfills Last minute.

Please ensure that you can use this clipart, it is NOT iff format!!

WEIRD SCIENCE:
Superb 256 colour hires pictures! 1200 only!*order nos:WSAGA1 -*
WEIRD SCIENCE SUPER HAM;
Fantastic 262000 colour hires raytraced & digitized pictures, hardly any different to the 24 bit originals, show to PC owning friends and watch them weep!
order nos: SH1-15 .... 15 Super discs!
WSAGA6 + 7 JPEG loaders!! **These disks contains 24 bit Jpeg pictures which unpack in ram to display as Superham 8 on a 1200/4000 machine!! Brilliant!**
WSAGA8-12 5 Jpegs of wildlife pics.16 megabytes unpacked per disk! displays as superham on 1200! Amazing!
WSAGA13 24bit Jpeg Vista landscapes!
JPEG 24 BIT PICS!
An amazing 12 disks full of brilliant 24 bit pics by Michel Rigo! Remember you need tons of memory & some form of 24 bit display to view, or convert to superham! JP1-12.

COLOURED CLIPART! NEW!

...a superb collection of coloured clipart, ...in Ham mode (4096 colours), though some is ...colours. Can be loaded into Deluxe Paint 4 ...other package accepting Ham pictures! ...on 500, 500+, 600, 1200 & 4000!)

MAPS, Afganistan - Botswana, autoboots! + Y
MAPS, Brazil - Checkoslovakia, autoboots! +Y
MAPS, Denmark - Grenada , hires maps! +Y
MAPS, Guadel - Illinois, hires maps! +Y
MAPS, India - Luxembourg, hire maps! +Y
MAPS, Macau - Missisipi, autoboots! +Y
MAPS, Montana - New York, hires maps! +Y
MAPS, Neutral Zone - Iraq - S Dakota! +Y
MAPS, Senegal - Tuuaw, autoboots! +Y
MAPS, Texas - Zimbabwe, autoboots! +Y
REPTILES, good pictures, autoboots! +Y
ACTORS, famous faces, autoboots! +Y(2)
AIRCRAFT, 1-26, assorted, autoboots! +Y
AIRCRAFT, 27-32 & Cars! autoboots! +Y
BIRDS, 1-12 Super pictures, autoboots! +Y
BIRDS, 13-29 More avian pictures! +Y
BIRDS, 30-41 Lots more birds,autoboots! +Y
BIRDS, Many more bird pics, autoboots! +Y
BIRDS, And some more fab pictures! +Y
BIRDS, 116-130 Some good pictures! +Y
BIRDS, 131-138 More bird pictures! +Y
BIRDS, More superb pictures here! +Y
CATS, 1-16 Super cat pics,autoboots! +Y
DOGS, 1-126 Super dog pics,8 disks! +Y
EXPLORERS 1-13 famous explorers,autoboots+y
FISH 1-92 Super pics pictures,(4 disks)+y
FLOWERS 1-13 Flower pictures,autoboots!+y
FLOWERS 14-25 More flower pics,autoboots!+y
FLOWERS 26-37 More flower pics,autoboots!+y
FLOWERS 38-50 More flower pics,workbench+y
FLOWERS 51-62 More flower pics,autoboots!+y
FLOWERS 63-74 More flower pics,autoboots!+y
FLOWERS 75-87 More flower pics,autoboots!+y
FLOWERS 88-100 More flower pics,autoboots+y
FLOWERS 101-113 More flower pics,autoboots+y

L050 FLOWERS 114-127 More flower pics,autoboots+y
L051 FLOWERS 128-138, FRUIT 1-4 pics autoboots+y
L052 FRUIT 5-18. Good pictures! autoboots! +Y
L054 FRUIT, More fruit & leaves etc!,autoboots+Y
L055 FRONTIER 1-13 Pioneer pictures,autoboots
L056 HORSES 1-16 Great horse pics,autoboots! +Y
L057 HORSES 17-22, Insects 1-9, autoboots! +Y
L058 INSECTS 11-23 Small creatures! +Y
L059 INSECTS 24-41 More pics! autoboots! +Y
L060 INSECTS 42-59 More insects! autoboots! +Y
L061 INSECTS 60-63, Inventors 1-11 autoboots! +Y
L062 INVENTORS 12-24 More inventors autoboots! +Y
L063 INVENTORS 25-30, MAMMALS 1-10! autoboots! +Y
L064 MAMMALS 11-26 More animals pictures! +Y
L065 MAMMALS 27-46 and more animals! +Y
L066 MAMMALS 45-65 more mammals,autoboots! +Y
L067 MAMMALS 66-82 and some more! autoboots! +Y
L068 MAMMALS 83-102 and many more autoboots+Y
L069 MAMMALS 103-119 many more! autoboots! +Y
L070 MAMMALS 121-141 superb pictures! autoboots +Y
L071 MAMMALS 142-158, & INSTRUMENTS 1-4! +Y
L072 INSTRUMENTS 4-25 Musical! autoboots +Y
L073 INSTRUMENTS 26-36, MILITARY 1-6 autoboots +Y
L074 MILITARY 7-17,& MUSICIANS 1-4! +Y
L075 MUSICIANS 9 -21 Classical! autoboots! +Y
L076 PREHISTORIC 2-19 Dinosaurs! autoboots! +Y
L077 PREHISTORIC 20-25, PEOPLE 1-8 autoboots! +Y
L078/80 PEOPLE 9-50 Lots of people! (3 disks)+Y
L081 PEOPLE & Presidents, good pictures! +Y
L082/4 PRESIDENTS 1-40 USA presidents,3 disks +Y
L085 REPTILES 1-19 Good pictures autoboots! +Y
L086 REPTILES 19-38 More reptiles! autoboots! +Y
L087 REPTILES 39-50, Ships 1-9,autoboots! +Y
L088 SHIPS 10-33 Marine vessels! +Y
L089 SPORTSMEN. Various sportsmen,autoboots! +Y
L091 TREES, Lots of tree pictures! autoboots! +Y
L092 TREES, Lots more tree pics! autoboots! +Y
L093 TREES, And some more trees! +Y
L094 TREES 57-70 trees lots of trees,autoboots!+y
L095 TREES 71-84 more tree pictures, autoboots!+y
L096 TREES 85-100 even more trees,workbench!+y
L097/100 VEGETABLES 1-48 good pics 4 disks,workbench+y

CLASSIC CLIPART (Black & White)

(Okay on A1200 / A4000.)
The clipart in this collection is very high quality, huge bitmaps, many greater than an Amiga hires screen, for use in Dpaint or DTP packages, each disk autoboots as a slideshow allowing you to view the entire bitmap by moving the mouse! (Prices per disk!)

ART01 WEDDINGS Super wedding clipart, 2 disks!+
ART02 HOUSES 2 disks, pictures of mansions etc!+
ART03 RELIGIOUS 3 disks full of holy clipart!+
ART04 WWII AIRCRAFT World war II planes!+
ART05 MEN 2 disks full of men at work!+
ART06 WOMEN 2 disks full of women clips!+
ART07 KIDS 2 disks containing kids clipart!+
ART08 BUSINESS Disk full of office clipart!+
ART09 OFFICE Another office type disk!+
ART10 STUDENTS Lots of student type pics!+
ART11 SALETIME Many useful logos etc!+
ART12 XMAS 3 disks of Xmas related pics!+
ART13 PUNCH 3 disks of cartoon pics! +
ART14 ANIMALS Fantastic quality pictures!+
ART15 CATS Only 12 pics but super quality!+
ART16 SILHOUETTES 18 super silhouettes!+
ART17 SCHOOLS 2 disks of school pictures!+
ART18 BABIES Clipart on a baby theme!+
ART19 SPORT 2 disks full of sport pictures!+
ART20 OLYMPIC Another sport type disk!+
ART21 MEDICAL 2 disks full of medical clipart!+
ART22 SEALIFE Pictures from the Ocean!+
ART23 DECORATIVE MONTHS 1 for every month+
ART24 WACKY Funny comic type clipart!+
ART25 HOLIDAYS Holiday type pictures!+
ART26 BANNERS 2 disks full of banners!+
ART27 ART NOUVEAU FLOWERS Floral art!+
ART28 BUTTERFLIES Nice pictures!+
ART29 FOOD 2 disks on a food/kitchen theme!+
ART30 COLOURING BOOK Colour in Dpaint!+
ART31 BORDERS 2 disks, must load into DTP!+
ART32 MAC CLIP 2 disks high quality macart!+
ART33 HORNBACK Nice scenic clipart!+
ART34 TEDDY BEARS 2 disks of Teddy bears!+
ART35 VANITY FARE 2 disks fashion clipart!+
ART36 HALLOWEEN CLIPART Wierd clipart!+
ART37 SHOWTIME Dancing, singing etc!+
ART38 VEGGIES Vegetarian clipart!+
ART39 FLORAL 14 very detailed pictures!+
ART40 MYTHS Mythical images + zodiac!+
ART41 DOG WOODCUTS Super 300dpi pics!+
ART42 CAT WOODCUTS Great wildcat pics!+
ART43 AFRICAN WOODCUTS African animals!+
ART44 AMERICAN WOODCUTS More animals!+
ART45 ARTIC WOODCUTS Northern animals!+
ART46 FARM WOODCUTS Farm animals!+
ART47 MIXED ANIMAL WOODCUTS Nice pics!+
ART48 BIRDS WOODCUTS 18th century bird pics+
ART49 MORE ANIMALS More superb pictures!+
ART50 ANIMAL LINEART Varied selection of pics
ART51 BOTANICAL ART detailed plant pics!+
ART52 FAMILY SCENES 2 disks of domestic life!+
ART53 GOLF HUMOUR 2 amusing cartoon disks!+
ART54 SPACE & TRANSPORT On a space theme!+
ART55 SOFTSCENE2 29 rural scenery pictures!+
ART56 SPORTS3 More pics on a sports theme!+
ART57 NAVY Lots of naval type pictures!+
ART58 TRAVEL 2 disks on a travel theme!+
ART59 ALPHABET Borders & alphabet clips!+(2)
ART60 ACCENTS & FLASHES Burst stars+ more+
ART61 FISH Lots of aquatic pictures! +Y
ART62 SOFTSCENE 3 More nice scenery pictures! +Y
ART63 RESTAURANT 3 disks of Restaurant pictures(3)+Y
ART64 MORE HOLIDAYS Festive holiday pictures! +Y
ART65 ANIM & BIRD 44 nice pictures! +Y
ART66 MOSSBURN ANIMALS 32 nice animal pictures! +Y
ART67 BURCHFIELD KIDS Some nice kids clipart! +Y
ART68 BEAST & MYTH 3 disks of Monsters,demons etc!(3)+Y
ART69 TRANSPORT 3 disks of Cars,Airplanes Ships etc!(3)+Y
ART70 TRUCKS & TRAINS Full of Wagons trains etc! +Y
ART71 ASTROLOGY 2 disks of astrological signs! +Y
ART72 AIRCRAFT 3 disks full of aircraft pictures!(3) +Y
ART73 BIRDS Songbirds, Birds of Prey & more! +Y
ART74 DOGS Disks full of good dog pictures! +Y
ART75 HOUSES CASTLES & BUILDINGS Good pics +Y
ART76 SPORTS-MAC Lots of good sports pictures! +Y
ART77 GARDEN Lots of horticultural pictures (5) +Y
ART78 MILITARY 10 disks of military clipart! (10) +Y

BOULDERDASH GAMES

We now have over 100 (YES 100!!) Boulderdash games in this mammoth collection. All work on any Amiga 500, 600 or 1200!!

BG001 EMERALD MINES 01
BG002 EMERALD MINES 02
BG003 EMERALD MINES 03
BG004 EMERALD MINES 04
[illegible]

AMIGA CD ROM COMPACT DISCS!

Superb CD roms for your CDTV or A570 add on!

...Features Fred Fish 1-660 , hundreds of music modules, & much more! 19.95.

...DEMO DISK Over 600 megabytes of demos, samples, games, animations & 1000 modules to play 19.95.

...2 This CD contains Fred Fish 661-760, the Scope library, The AB20 archives & much more! 19.95

...IN OUTER SPACE Super kids educational title! ...19.95.
Please add 50p per CD for P&P.

NBS
CU10, 1CHAIN LANE, NEWPORT
I.W. PO30 5QA
TEL: 0983 529 594
FAX: 0983 821 599

VALLY PD
CU10, PO BOX 15, PETERLEE
CO. DURHAM SR8 1NZ
TEL: 091 587 1195
FAX: 091 587 1195

BLITTERCHIPS
CU10, CLIFFE HOUSE, PRIMROSE
STREET ,KEIGHLEY, BD21 4NN.
TEL: 0535 667 469
FAX: 0535 667 469

PD SCENE

Stunning real time videos, addictive arcade-quality games and superb cartoon slideshows are all up for grabs for next to nothing. Tony Horgan goes public.

242

demo

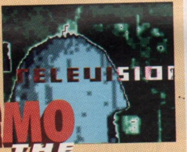
Whether you like pretty pictures and technical trickery in your demos or not makes little difference because *242* is bound to impress you anyway as it is packed with 170Mbs of digitised animation.

The demo is very strange to say the least. At first, it looks like a fairly standard techno audio-visual thing, but it soon turns out to be something a bit different. Between the slogans and strobes it becomes apparent that you're being taken on a camcorded walk to some mystery destination. You are taken down alleyways and through crowded streets. You'll find out what it's all about eventually – but I'm not going to tell you here.

The music is a bit weedy, but it is better than the average soundtrack. The graphics, however, are the best part of this demo – they are uncannily trendy for an Amiga demo.

Available from: Visage Computers, 1ß Station Road, Ilkeston, Derbyshire DE7 5LD.
Tel: 0602 444501. Disk no. D200.
Price: £2 (including P+P).
Requires 0.5 Mb Fast RAM.

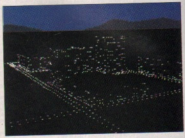
90%



DEMO OF THE MONTH

EXTENSIONS

demo



Yet more wonderful visuals come your way courtesy of Pygmy Designs. It's best to ignore the hardcore-with-wet-bits soundtrack, and get stuck into the graphics. Things get going properly with a blindingly fast session of 3D landscape flights, taking you over hills and lakes which are made up from lot of little dots. Then, there's the box-in-a-box effect, which has concentric cubes twisting and gyrating within one another.

A series of metamorphing logos are up next, and then it's time for a brilliant Manhattan skyline 3D zoom-trip effect. After some standard vectors, there's another clever rendering of a night time cityscape; this time seen from a helicopter view. If you want a dose of good cutting edge effects, get your copy of *Extensions* ASAP.

Available from: Visage Computers, 18 Station Road, Ilkeston, Derbyshire DE7 5LD.
Tel: 0602 444501. Disk no. 204.
Price: £2 (including P+P).

88%

ASSASSINS 100

game compilation

Another couple of ancient classics get the conversion treatment from Assassins. First up is *Bload Runner*, which is really the old C64 fave *Lode Runner*.

If you never played the original, this could look decidedly crap, but give it a chance! Admittedly, the sprites are tiny and the levels are merely various designs of bricks and ladders, but the game still has all the appeal it ever had.

It's like a cross between *Space Panic* (the one where you bash the aliens on the head with a spade) and *Donkey Kong*.

The other main game on the disk is *Monaco*, which is very similar to *Monaco GP*, not the Sega game unfortunately, but one that surfaced around 1980.

It's a simple *Spy Hunter*-style vertically scrolling racer that used to be quite a laugh in its day. Dig out your rose-tinted specs and you can probably get some mileage out of it.

Oh, and there's a Patience card game too.

Available from: Roberta Smith DTP, 190 Falloden Way, Hampstead Garden Suburb, London NW11 6JE. Disk no. G100.Price: £1.40 (including P+P).

81%

NEURAL ASSAULT

demo

For slick graphic effects, this new one from Rage is tops. It gets going with a slippery-smooth 3D zoom into a cinema screen, followed by a spooky zoom into the eyeball of an android, then does some clever things with 3D texture maps combined with vectors.

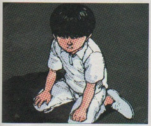
Next on the menu is a wobbly stick of rock kind of effect, then a variety of snippety vector animations, and a sprinkling of various other little effects. There's a promising abstract blurred vector sequence, but it's only on screen for a few seconds, which is a shame as it could become quite hypnotic. It finishes off with a little ray-traced animation loop. Definitely one of the best traditional demos of late.

Available from: Visage Computers, 18 Station Road, Ilkeston, Derbyshire DE7 5LD. Tel: 0602 444501. Disk no. D205. Price: £2 (including P+P).

83%

AKIRA PICTURE DISK 2

slideshow



This one's a single disk slideshow of hand-drawn pics from Akira. The quality varies from average to excellent. Some are true cartoon quality, while a few are a bit amateur-looking. Overall though, there's plenty for Akira fans to get their teeth into.

Available from: 17 Bit, 1st Floor Offices, 2-8 Market Street, Wakefield, West Yorkshire, WF1 1DH. Tel: 0924 366982. Disk no. 2695. Price: £2 (including P+P).

83%

3 WAYS TO STOP SMOKING

animation

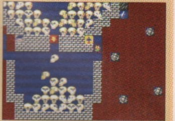
If you're really desperate to kick the habit, and you've tried all the usual methods of giving up smoking, you may like to take a look at this for a few ideas. There are three rather extreme suggestions to choose from, two of which end in death, while the other will leave you with only one hand. This one actually aroused a chuckle when I first booted it, which is pretty good considering it was Monday morning.

Available from: Visage Computers, 18 Station Road, Ilkeston, Derbyshire DE7 5LD. Tel: 0602 444501. Disk no. A120. Price: £2 (including P+P). Requires 1.5Mb RAM.

78%

RABOULDIX

game

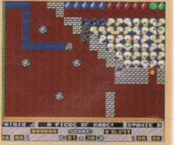


This *Boulderdash* clone is one of the most polished PD games we've seen for a while. For a PD game it's quite well developed, with smooth scrolling, big levels, and a good selection of aliens and traps.

The idea is that you tunnel through the levels, picking up all the diamonds as you go. The gravity introduces a puzzle element, as the boulders cascade into your path, killing you or blocking the passage. In the playability stakes, it lacks the unique feel of the original, but it's a big enough game to keep you occupied for some time.

Available from: Cynostic PD, 25 Monks Road, Coventry, CV3 2BQ. Tel: 0203 613817. Disk no. G0179. Price: £2 (including P+P).

80%



G
Z

GROUND ZERO
4 CHANDOS RD
REDLAND
BRISTOL BS6 6PE
ENGLAND

NEW STUFF

G251 SKYCHASE - 1 to 4 player dogfighting game with a choice of 4 craft. A500 ONLY.
G250 STARIANS - Sci-Fci platform/blaster. V.Good. NOT A1200.
A145 EXTRADYNE ONE - Latest Animation from Steve Packer. Creator of the CHUCK series. This time a Sci-Fi mini movie.
E047/E048 SEE THE AURA (2 DISKS) - Learn how to see and interpret the human aura.
U283 LOCKPICK v2 - Removes various forms of copy protection from over 450 commericial titles.
U282 TERMINUS 2 - Terminal software for modems. The best comms proggy around.
U281 D-COPY 3.1 - Professional disk duplication software.
U280 LEMMINGS II HD INSTALLER - Install Lemming 2 on your Hard Drive. Requires 1.5 meg. NOT A500.
U279 NCOMM V2.0 - Another highly rated terminal program for your modem. Good for the beginner. The most popular one used.
D154 STATE OF MIND - At last a decent demo from the UK. A500 ONLY.
U268 FAST RAM EMULATOR - Changes your A1200`s memory configutarion to include fake fast ram. To aid in compatibility.
A148-A150 THE AD (3 DISKS) - Epic Sci-Fi raytraced animation. Well hard. Requires 3 megabytes.

G246 - WIBBLE WORLD GIDDY.
The best PD game ever. A mix of puzzle and platform, in the same genre of the hit budget Dizzy series. Don't miss this near commercial quality game. Wow.

U272 - TEXT ENGINE v4.0.
Powerful word processor with the unique feaure of an fully intergrated 36,000 word spell checker. Not to be missed.

PRICE LIST

PRICE PER DISK	£0.89
CATALOGUE DISK	£0.50
POSTAGE & PACKING	£0.75

OUTSIDE UK..ADD 25% OF GRAND TOTAL TO COVER EXTRA POSTAGE COSTS.

CHECK OUT OUR CATALOGUE DISK. WIDELY REGARDED AS THE BEST CATALOGUE IN THIS COUNTRY.

CLASSIC GAMES

G200 FIGHTING WARRIORS - PD equivalent of Street Fighter.
G205 TOP OF THE LEAGUE - Brill Footy management game.
G222 GNU CHESS - The best PD Chess game available. NOT A500
G232 MONACO - Clone of the original arcade race game.
G245 ALL ROUNDER - Cricket Simulation.
G169 DONKEY KONG - Faithful to the original platformer. NOT A1200.
G037 SEALANCE - Brilliant Submarine wargame.
G224 OBLIVION - Blistering version of Defender.
G221 BOW & ARROW - Archery game.
G229 GIGER TETRIS - New Tetris game for A1200's only.
G233 PACMAN DELUXE - Incredible Pacman clone.
G214 DR MARIO - Conversion from the SNES console.
G199 FRAC - Create your own text Adventures!
G193 HELLZONE - The ultimate PD shoot-em-up. Too good to miss.
G177 CRAZY SUE II - The highly rated professional platform game.
G150 LEGEND OF LOTHIAN - Fabulous Ultima style RPG.
G078 3D Battle cars blaster to the death.
G030 MEGABALL - The closest thing to Arkanoid. One of the all time greats of the Public Domain World. Miss out at your peril.
G236 RAGS TO RICHES - Rewarding Monopoly based board game. Requires at least 1.5 megabytes of memory.
G237 GAMMON - Polished Backgammon game.
G128 TOTAL WAR - Faithful RISK clone.
G121 BIPLANES - Take to the skies and dog fight.
G114 GROUND ZERO GAMES 14 - Dictator, Bugblaster, Lamer Exterminator, Mambamove, Sokusky, Reversi, Mine Clearer.
G107 WASTELAND -The closest thing to a VR game.
G093 GROUND ZERO GAMES 12 - Parachute Joust, Jumpy, Zut Alors.
G091 GROUND ZERO GAMES 11 - Destination Moonbase, Pacman, Wanderer 22.
G089 HOLLYWOOD TRIVIA - Do you know your stuff!
G088 21 GAMES - A massive bargain of 21 games crammed on a single diskette.

ONLY
89p
PER
DISK

TOP DEMOS

D148 STATE OF THE ART - The hottest demo of the year. Unbelievable graphics. Get this now....
D147 SONIC THE HEDGEHOG - Could this be for real???
M127/M128 JESUS ON E'S (2 DISKS) - Possibly the best music demo ever. 27 minutes long (REQUIRES 2 DRIVES).
M130/M131/M132/M133 THE A-Z OF C64 TUNES - A huge collection of old classic C64 game tunes.
M134 RHAPSODY IN BLUE - Jazz.
M135/M136 NUTCRACKER SUITE - Classical music.
M123 KAOS THEORY - Five hardcore tracks.
M119 TECHNO WARRIORS - Rave for 24 minutes.
D046 ENIGMA - The demo that set the standard.
D149 PLANET GROVE - An A1200 only demo. Making use of it's superior AGA chipset.
D145 PIECE OF MIND - Excellent use of vectors, in this Star Trek spoof.
A127 DOLPHIN DREAMS - Beautiful animations.
M084 GATES OF PAGAN - Inspired music disk. V. good.
A093 5 WAYS TO KILL A MOLE - Ten really.

SEE OUR CATALOGUE FOR LOADS MORE DEMOS

U273 - ACCOUNT MASTER
Professional personal finance manager. Very comprehensive, with features that match the full price commmercial

TOP UTILITIES

U215 FREECOPY v1.8 - Removes protection from 60+ commercial games.
U003 M-CAD - Computer Aided Design program.
U009 C-LIGHT - A former commercial Ray-Tracing package, released as public domain software.
U062 SCENE GENERATOR - Generates random life-like scenes, with mountians, water, clouds, ice etc. Incredible results.
U102 AMIGAFOX - Desktop Publishing package.
U137 ELECRO CAD - Circuit board designer.
U142 FREE PAINT - An package similar to Deluxe Paint.
U154 AUDIO ANIMATION - Animation studio, plus you can add sound effects in sync with the visuals.
U190 GRAPHICS GALLERY - Learn how to produce stunning logos as seen in the top demos.
U267 SPECTRUM EMULATOR v1.4 - The latest verion of the Spectrum emulator.
U206 RACE RATER - Horse racing predictor.
U158 NOERRORS - Hides the hard errors on disks, making useless disks into working ones.
U151 P-SUITE - Disk magazine creator, add graphics, sound and even animation sequences.
U150 A500+ EMULATOR - Upgrades your ancient Kickstart 1.3 Amiga into a A500 PLUS. For running Workbench 2.0 on the A500.
U146 AMIGA SYSTEM DISK - A batch of computer diagnostics programs. Make sure your Amiga is in a healthy state.
U186 MED 3.21 - The most popular music sequencer available. We can also provide you with loads of instrument disks - See catalogue.
U178 COMPOSER - Traditional music making with staves and notes.

EDUCATION

E044 THE MATHS ADVENTURE - Maths intergrated into a game.
E042 GAS TURBINE ENGINE - Animated cross section.
E037 FOUR STROKE ENGINE - More of the same.
E036 STEAM ENGINE - More animated engines.
E043 WW2 HISTORY BOOK - Loads of text and picture data of the history of the second world war.
G041 FRACTIONS - Test and teaching.
E038 AMIGAZER - Astronomy program.
E026 A VISIT TO THE RED PLANET - A guided tour of Mars.
E024 TOTAL CONCEPTS DINOSAURS - All you wanted to know about dinosaurs.
E023 TOTAL CONCEPTS ASTRONOMY - All you wanted to know about space.
E022 SPANISH/FRENCH/GERMAN/ITALIAN TUTORS - Four language tutors.
E018 BIORHYHMS CALCULATOR - Display your personal biorhyhms graphs.
E012 EVO - Follow the evolution of man from 20 million years ago.
E003 GRAVITY SIMULATOR - Does just that.
E040 FAMILY HISTORY DATABASE - Famil tree plotter.
E033 ELEMENTS - Computerised periodic table.

Check out our catalogue disk for thousands more programs, from the most detailed reference guide on all the best public domain software available. Whats more we are one of the cheapest libraries around. Don't pay £3.00 or even £1.25 when you can have the same software for just 89p.

ALL DISKS ARE COMPATIBLE WITH ALL AMIGA'S UNLESS STATED OTHERWISE.

GVP WORLD CLASS PERIPHERALS FOR THE AMIGA

NOW AT NEW LOW PRICES!

ACCELERATORS
FOR AMIGA 1500 AND 2000

FAST!
32-bit
TECHNOLOGY

If you use your Amiga for DTP, ray tracing, graphics or any other serious application, you'll appreciate the power that an accelerator brings. Accelerators replace the main processor with a faster version dramatically improving the Amiga's speed.

GVP offer a range of A1500/A2000 accelerators that simply outstrip the competition for speed and specifications. Their G-Force range includes the fastest Amiga accelerator available (the 68040 33MHz version) whilst offering a range of functions, such as 32-bit RAM upgrades, SCSI interfaces and maths co-processors. For boosting the power of your Amiga you can't beat the GVP G-Force range!

SPECIAL OFFER SAVE £65! 42Mb QUANTUM HARD DRIVE + MOUNT KIT HAR 2043 ~~£234~~ **£169** INC VAT
ONLY WHEN PURCHASED WITH G-FORCE ACCELERATORS SHOWN BELOW

G-FORCE ACCELERATORS	030 25MHz	030 40MHz	030 50MHz	040 33MHz
Speed MIPS*	7.48	12.1	15	30
Processor	68030EC	68030EC	68030	68040
Maths Co-Pro.	68882 included	68882 included	68882 included	In 68040 processor
Std 32-bit RAM	1Mb	4Mb	4Mb	4Mb
Max 32-bit RAM	13Mb	16Mb	16Mb	64Mb
Extras	SCSI	SCSI	SCSI	SCSI Ser/Par
PRICE	£399 INC VAT UPG 0110	£699 INC VAT UPG 0430	£999 INC VAT UPG 0533	£1299 INC VAT UPG 0740

*MIPS: Millions of instructions / second, a normal Amiga runs at .67 MIPS

PLUG-IN HARD DRIVE & ACCELERATOR
FOR AMIGA 500 AND AMIGA 500PLUS

GVP
A530 TURBO
40MHz
GOLD
94%

The A530 is a unique combination of a hard drive, RAM board and an accelerator. Inside is a full Motorola 68030EC processor running at 40MHz making your Amiga faster than you thought possible. The A530, with a maths co-processor, is up to 300 times faster than a standard A500! The new processor and 32-bit SIMMs is joined by up to 8Mb of 32-bit RAM, which further enhances its performance. Features Include:

- *40MHz 68030EC Processor*
- *Up to 8Mb 32-bit Memory, 1Mb fitted*
- *Cut Off Switch For Game Compatibility*
- *Designer Styling to Match the A500*
- *Dedicated Power Supply and Fan Unlike Many Competitors*
- *Mini-slot for Future Expansions*
- *Factory Installed Hard Disk*
- *High Speed DMA SCSI Controller Can Handle 7 Devices*

A530 HARD DRIVE & 40MHz ACCELERATOR

42Mb	80Mb	120Mb
~~£699~~ £499 INC VAT - HAR 0962	~~£799~~ £599 INC VAT - HAR 0968	~~£899~~ £699 INC VAT - HAR 0974

PLUG-IN HARD DRIVE
FOR AMIGA 500 AND AMIGA 500PLUS

A hard drive will have an immediate effect on your Amiga. Where you used to constantly swap disks, wait for files and programs to load and sit around waiting for disk accesses, you'll now be pushed to keep up with your Amiga! Hard drives work in the same way as floppy disks, but can hold a great deal more information and access this data much quicker.

The A500-HD8+ provides the ultimate in hard drive performance, it can also increase the memory of your Amiga, and provide PC compatibility. Features include:

- *Ultra Fast Access SCSI HD*
- *Up to 8Mb of FAST RAM*
- *Mini-slot for Future Expansions*
- *Cut Off Switch For Game Compatibility*
- *Designer Styling to Match the A500*
- *Dedicated Power Supply and Fan Unlike Many Competitors*
- *High Speed DMA SCSI Controller - Can Handle 7 Devices*

PC EMULATOR
PLUGS INTO THE HD8+ OR A530 TO ALLOW YOU TO RUN PC COMPATIBLE SOFTWARE ON YOUR AMIGA
286-16MHz EMU 0500 £99 INC VAT

HD8+ HARD DRIVES

42Mb	80Mb	120Mb
~~£299~~ £249 INC VAT - HAR 0840	~~£399~~ £349 INC VAT - HAR 0888	~~£499~~ £399 INC VAT - HAR 0922

GRAPHICS CARD
FOR A1500/A2000/A3000/A4000

ALL-IN-ONE GRAPHICS CARD

Impact Vision 24 is a fully featured video card. Unlike other graphics cards which require you to buy extra modules later, IV24 has everything you could want from a video board built-in!

Included with IV24 is GVP's custom Video Interface Unit (VIU). This gives you more choices for in and outputting video signals than any other Amiga peripheral on the market. VIU-CT splitter provides additional RGB, Y, R-Y and B-Y output.

FREE SOFTWARE WITH IV24

Create stunning 3D rendered images, retouch captured images and wipe between 2 video sources with 50 packaged video transitions for production studio effects. Also included is MacroPaint 2, a powerful 24-bit graphics package which can paint in 16.8 million colours.

- *1.5Mb 24-bit, 16.8million Colour Buffer*
- *Real-time Framegrabber/Digitiser*
- *De-interlaced, Video Flicker Fixer*
- *Movable/Sizable PiP (Picture-in-Picture)*
- *2 Video Genlock (RGB & Composite)*
- *768 x 580 Resolution*
- *Captured Image Retouching/Processing*
- *Titling/Character Generation*
- *Real-time 24-bit Painting*
- *Animation/3D Rendering*
- *FREE! Caligari 24, MacroPaint 2, MyLad and Desktop Darkroom Software*

A1500/A2000 ADAPTOR - £49.95 - GVA 5224

IV24 inc VIU-S	IV24 inc VIU-CT
~~£1499~~ £999 INC VAT - VID 7024	~~£1899~~ £1299 INC VAT - VID 7104

VIDEO GENLOCK
FOR ALL AMIGAS

G-Lock is a fully featured Genlock, which allows you to mix Amiga text and images with moving video pictures. You can then send the combined result back to your video recorder for recording.

- *Two Composite Video Inputs or S-Video (Y/C) Input*
- *Simultaneous Composite & S-Video and RGB Output*
- *Video Processor - Real Time Software Control of Video Attributes (Sharpness, Gain, Brightness etc)*
- *ARexx Compatible*
- *Works with Flicker Fixers*
- *Multiple Keyer Modes*
- *Full Audio Support*

G-LOCK ~~£349~~ £299 INC VAT - VID 2500

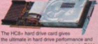
SOUND SAMPLER
FOR ALL AMIGAS

Capture sound from an external source and play it back on your Amiga. With GVP's Digital Sound Studio (DSS) you can create your own audio effects for use in games, or make jingles!

- *Holds up to 31 Samples in Memory At Once*
- *Real-time Oscilloscope, Spectrum Analysis, Echo and Reverberation*
- *Graphic Editing of Wave Forms*
- *Stereo or Mono Operation*
- *.MOD File & MIDI Compatible*

DSS £39 INC VAT - VUS 2500

HARD DRIVE CARD
FOR A1500/A2000/A3000/A4000



The HC8+ hard drive card gives the ultimate in hard drive performance and can be used to increase your Amiga's RAM.

- *High Speed DMA SCSI Controller - Can Handle 7 Devices*
- *Ultra Fast Access*
- *SCSI Hard Drive*
- *Up to 8Mb of FAST RAM*
- *Direct Memory Access Style Design*

0Mb	42Mb	80Mb	120Mb
£129	£279	£349	£399

SCSI/RAM EXPANSION
FOR THE AMIGA 1200

Adding RAM or a hard drive to your Amiga will have a considerable impact on its speed. The GVP SCSI/RAM allows you to enhance your Amiga with both. Its SCSI hard drive interface is one of the fastest available, whilst its 32-bit RAM upgrade is based on the same technology as that featured in the best selling A1230.

- *Built-in, Full SCSI Hard Drive Interface*
- *Optional 8Mb of 32-bit RAM*
- *Optional 68882 Maths Co-processor*

EXTERNAL SCSI ADAPTOR KIT - £49 INC VAT - HAR 1245

0Mb RAM	4Mb RAM + 33MHz 68882 FPU
NEW! £199 INC VAT - HAR 1303	NEW! £399 INC VAT - HAR 1233

IMAGE PROCESSING
FOR ALL AMIGAS WITH 4Mb RAM

Image FX is a complete solution for all your image creation and editing needs. It has a vast range of facilities, can read and write to many other different file formats and directly controls a wide variety of hardware.

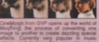
CINEMORPH INCLUDED! SEE DETAILS BELOW

- *24-bit Painting*
- *ARexx Compatible*
- *Virtual Memory Support*
- *Load, Save and Convert to the Following Formats: ANIM, BMP, Clipboard, DCTV, DPIIE, GIF, HAM-E, ILBM, IMPULSE, JPEG, RENDITION, SCULPT, TARGA, TIFF AND MORE*
- *Scanning, Framgrabbing & 24-bit Board Support Comes with Modules for Several Popular Hardware Devices: JX100, IV24, AGA/AA Chipset*
- *Create Animations*
- *Numerous Special Effects Edge Feathering, Shading, Alpha Channel, Morphing, Compositing etc*

Promo Price, originally £289.95

IMAGE F/X £149.95 INC VAT - ASI 2002

VIDEO EFFECTS
FOR ALL AMIGAS WITH 3Mb RAM



CineMorph from GVP opens up the world of Morphing: the process of converting one image to another to create dazzling special effects. Currently very popular in music videos and feature films, morphing has become the fashionable video effect to use. Now with CineMorph you can create these stunning effects on your Amiga.

- *Supports the AA Chipset*
- *Static or Full Motion Morphing*
- *Single Image Warping*
- *Fast Render Times*
- *Renders to HAM-E and DCTV*

Promo Price, originally £59.95

CINEMORPH £24.95 INC VAT - ASC 4422

40MHz ACCELERATOR
FOR THE AMIGA 1200

FAST!
32-bit
TECHNOLOGY

Other A1200 cards claiming to be accelerators only add maths co-processors and extra RAM, whilst the A1230 can provide both of these PLUS an enhanced CPU. This replacement CPU upgrades the A1200's existing processor with a 68030EC processor running at 40MHz!

32-bit RAM and a maths co-processor can also be added, enhancing performance still further. The A1230 doesn't void your Amiga warranty, and is also compatible with PCMCIA standard cards, not preventing their use!

- *The First True A1200 Accelerator*
- *68030EC Processor Running at 40MHz*
- *Up to 32Mb of 32-bit RAM*
- *Easy Fitting Trapdoor Expansion - Doesn't Void Your Warranty*
- *Doesn't Disable PCMCIA Interface*
- *Optional 68882 Co-processor - Twice the Speed of a 68881*

A1230 40MHz ACCELERATOR

0Mb RAM, No FPU 40MHz CPU	4Mb RAM, No FPU 40MHz CPU	4Mb RAM, 40MHz FPU 40MHz CPU
£249 INC VAT - UPG 1233	£399 INC VAT - UPG 1232	£499 INC VAT - UPG 1234

ALL PRICES INCLUDE VAT - DELIVERY IS FREE OF CHARGE IN THE UK MAINLAND

210693-OPVS

SILICA SYSTEMS OFFER YOU

- *FREE OVERNIGHT DELIVERY:* On all hardware orders shipped in the UK mainland.
- *TECHNICAL SUPPORT HELPLINE:* Team of technical experts at your service.
- *PRICE MATCH:* We normally match competitors on a "Same product - Same price" basis.
- *ESTABLISHED 14 YEARS:* Proven track record in professional computer sales.
- *£12 MILLION TURNOVER (with 60 staff):* Solid, reliable and profitable.
- *BUSINESS + EDUCATION + GOVERNMENT:* Volume discounts available **081-308 0888.**
- *SHOWROOMS:* Demonstration and training facilities at all our stores.
- *THE FULL STOCK RANGE:* All of your requirements from one supplier.
- *FREE CATALOGUES:* Will be mailed to you with offers + software and peripheral details.
- *PAYMENT:* Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new Amiga products, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or software, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE ☎ 081-309 1111

SILICA SYSTEMS

MAIL ORDER: Order Lines Open: Mon-Sat 9.00am-6.00pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX No Late Night Opening	Tel: 081-309 1111 Fax No: 081-308 0608
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-6.00pm	52 Tottenham Court Road, London, W1P 0BA No Late Night Opening	Tel: 071-580 4000 Fax No: 071-323 4737
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-7.00pm	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB Late Night: Thursday - 8pm	Tel: 071-629 1234 Extension: 3914
SIDCUP SHOP: Opening Hours: Mon-Sat 9.00am-5.30pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Late Night: Friday - 7pm	Tel: 081-302 8811 Fax No: 081-309 0017
ESSEX SHOP: Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm)	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Late Night: Thursday - 7pm	Tel: 0702 468039 Fax No: 0702 468039

To: Silica Systems, CMUSR-1093-68, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE

Mr/Mrs/Miss/Ms: .... Initials: .... Surname: ....
Company Name (if applicable): ....
Address: ....
....
.... Postcode: ....
Tel (Home): .... Tel (Work): ....
Which computer(s), if any, do you own? 68T

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

MEGABLITZ! **PD DiRECT** MEGABLITZ!

THE ONE STOP SHOP FOR *AMIGA*® PUBLIC DOMAIN & SHAREWARE

UTILITIES

PDU 16 AIR TUNNEL SIMULATOR (P)
PDU 32 FISH#144 ANALYTIC S/SHEET (P)
PDU 99 HAM RADIO UTILITIES (P)- 5 DISKS
PDU 101 MENU MAKER
PDU 102 LABEL DESIGNER (P)
PDU 103 ICON MAKER (P)
PDU 104 ICON MANIA (P)
PDU 106 CROSSWORD CREATOR (P)
PDU 151 FIXDISK (P)
PDU 366 IBEM - PC EMULATOR (P) SHAREWARE DEMO
PDU 367 ATARI ST EMULATOR - ENGLISH
PDU 368 ZX SPECTRUM EMULATOR
PDU 369 C64 EMULATOR
PDU 370 FLEXIBASE - DATABASE (P)
PDU 375 MED 3.20 - MUSIC ED WITH MIDI SUPPORT (P)
PDU 377 M-CAD - DESIGN PROG (P)
PDU 378 TRANSFORMER v3.3 - IBM EMULATOR
PDU 382 MESSYSID II - RD/WR PC DISKS (P)
PDU 383 SPECTRA PAINT v3.2 (P)
PDU 384 DISK MASTER v3.2 (P)
PDU 385 ELECTROCAD v1.4 - SHAREWARE DESIGN PROGRAM (P)
PDU 386 AMIGAFOX - DTP PROGRAM (P)
PDU388 600 BUSINESS LETTERS (P)
PDU 389 B-BASE II - EXCELLENT, D/BASE (P)
PDU 391 FORMS REALLY UNLIMITED (P)
PDU 398 AMIBASE PROFESSIONAL 2 (P)
PDU 399 D-COPY v2.0 (P)
PDU 403 NORTH C - 2 DISKS (P)
PDU 407 OPTI UTILS #1 - GREAT! (P)
PDU 408 OPTI UTILS #2- EVEN BETTER (P)
PDU 409 GELIGNITE FONTS #1

HOME BUSINESS PACK

THIS 8 DISK PACK CONTAINS TEXT ENGINE v3.4 - WORD POCESSOR, B-BASE II DATABASE, VISICALC SPREADSHEET, DTP PROGRAM, 600 BUSINESS LETTERS, BUSINESS CARD MAKER, BANKING UTILS AND A FORMS DESIGNER (A500+/A600 compatible)

A MUST FOR HOME BUSINESS USERS !

£12.00

PDU 410 SUPERSOUND II - THIS IS THE LICENCEWARE VERSION NOW RELEASED AS PD. THE BEST SAMPLER YET! (P)
PDU 411 IMPLODER v4.0 - EXCELLENT COMPRESSION UTILITY (P)
PDU 412 HARD DRIVE UTILS (P)
PDU 413 PROFESSIONAL D.COPY v 3.0 - EXCELLENT COPIER !
PDU 414 SID v2.00 -NEW VERSION OF THE BEST DIRECTORY UTILITY (P) SHAREWARE
PDU 416 NIB COPIER v2.0 - VERY POWERFUL PARAMETER DISK COPIER, BACKS UP YOUR PROTECTED DISKS
PDU 419 SUPERKILLERS v2.5 - BEST VIRUS KILLER (P)
PDU 421 OCTAMED v1.00b - FULL VERSION OF THE 8 CHANNEL MUSIC EDITOR (P)
PDU 423 BOOT INTRO CONSTRUCTION SET - CREATE CUSTOM BOOT LOADERS FOR YOUR DISKS- EASY TO USE (P)
PDU 425 AMOS UPDATER v1.34 (P)
PDU 427 PRINTER DRIVERS - STAR LC10, HP DESKJET & PAINTJET PLUS MANY OTHERS (P)
PDU 429 KING JAMES BIBLE - COMPLETE TEXT WITH SEARCH ON FOUR DISKS (P)
PDU431 DPAINT FONTS - EXCELLENT CUT'N'PASTE FONTS ON 2 DISKS (P)
PDU 433 PC-TASK - SHAREWARE PC EMULATOR ... PROBABLY THE BEST! (P)
PDU 435 TEXT ENGINE v3.4-BRILLIANT WORD PROCESSOR (P)

CLIP ART PACK

THIS IS AN **ALL NEW** COLLECTION OF 13 DISKS, EXCLUSIVE TO US. THEY ARE TOTALLY MENU DRIVEN, SO ARE EASY TO USE. THERE ARE OVER 1000 IMAGES IN IFF FORMAT AND ARE IDEAL FOR DPAINT OR DTP.FROM FLAGS TO FAMOUS PEOPLE AND FROM FANCY BORDERS TO VIZ CHARACTERS.........PROBABLY THE BEST CLIP ART AVAILABLE AT ANY PRICE! (A500+/A600 compatible)

ALL 13 DISKS FOR ONLY

£15.00

PDU 436 TYPING TUTOR - INCLUDES SIGN LANGUAGE TUTOR (P)
PDU 437 WORD POWER - S/WARE SPELL CHECKER (P)
PDU 438 STAR PRINTER DRIVERS - 9 & 24 PIN MONO AND COLOUR DRIVERS DIRECT FROM STAR (P)
PDU 442 FREECOPY v1.8 - RENOWNED COPIER ..DEPROTECTS CERTAIN GAMES (P)
PDU 444 FREEPAINT - ART PACKAGE WITH ANIMATION (P)
PDU 445 DOC DUMP- CREATES SMALL BOOKLETS FROM TEXT FILES, THE ULTIMATE PRINT UTILITY (P)

EDUCATIONAL

PDE 1 LEARN& PLAY #1 - A SUITE OF PROGRAMS FOR YOUNG CHILDREN (P)
PDE 2 LEARN & PLAY #2 (P)
PDE 3 STORYLAND 2 - SAVE TOYLAND FROM THE WITCH (P)
PDE 4 TOTAL CONCEPTS ASTRONOMY - INTERACTIVE BOOK .... VERY GOOD (P)
PDE 5 TOTAL CONCEPTS DINOSOARS (P)
PDE 6 KIDSPAINT (P)
PDE 7 MR MEN STORIES - GOOD READING AID (NOT A500+ / A6000
PDE 8 SIMON SAYS & SPACE MATHS - V.GOOD COLLECTION (P)
PDE 9 HOORAY FOR HENRIETTA- DEMO FROM LANDER SOFTWARE (P)
PDE 10 SPELLBOUND - LANDER DEMO
PDE 11 HENRIETTA'S BOOK OF SPELLS ANOTHER LANDER SOFTWARE DEMO

GAMES

PDG 1 STAR TREK-T. RICHTERS VERSION 2 DISKS (P)
PDG 2 STAR TREK - BY ERIC GUSTAVSON, 3 DISKS, REQ 2 DRIVES, VERY GOOD (P)
PDG 32 LEGEND OF FARGHAIL (P)
PDG 35 PAIR IT - EDUCATIONAL GAME (P)
PDG 46 FRUIT MACHINE, POOL & MORE
PDG 50 SEALANCE - SUBMARINE SIMULATOR GAME (P)
PDG 60 AIR ACE II -WWII SHOOT-EM-UP(P)
PDG 61 ELECTRIC TRAIN SET (P)
PDG 62 ZX SPECTRUM GAMES #1 INC EMULATOR
PDG 63 ZX SPECTRUM GAMES VOL 2 INC EMULATOR (P)
PDG 70 DRIP! - VERY GOOD PIPE GAME (P)
PDG 71 LLAMATRON - BY JEFF MINTER
PDG 73 TWINTRIS - THE BEST VERSION (P)
PDG 75 TANX THE GAME- ADDICTIVE GAME (P)
PDG 77 STAR TREK THE NEXT GEN- BY TERRY MCINTOSH HI-RES GRAPHICS (P)
PDG 83 JEOPARDY- RISK TYPE GAME (P)
PDG 86 CRAZY SUE
PDG 87 AMIGA COLUMNS - WELL REVIEWED (P)
PDG 88 REVENGE OF THE MUTANT CAMELS - BY JEFF MINTER
PDG 89 NEW STAR TREK - BY JIM BARBER, 2 DISKS
PDG 91 LEGEND OF LOTHIAN - ULTIMA TYPE ADVENTURE (P)
PDG 92 ASHIDO - ORIENTAL TILE GAME..GOOD! (P)
PDG 94 LEMMINGOIDS - LIKE ASTEROIDS ..BRILLIANT GAME
PDG 95 INTERNATIONAL CRICKET - GOOD SHAREWARE GAME, VERY PLAYABLE (P)

GAMES PACK

THIS **NEW** 12 DISK PACK HAS ALL OF THE LATEST AND BEST PD GAMES. THEY ARE EASY TO USE AND VERY GOOD QUALITY
ALL ARE COMPATIBLE WITH A500+/A600

A MUST FOR ALL GAMERS!

£15.00

PDG 102 TOTAL WAR - STRATEGY GAME (P)
PDG 104 E-TYPE - THE DEFINITIVE ASTEROIDS VERY FAST (P)
PDG 105 MANIA SHOOT SADDAM & THE IRAQUI ARMY (P)
PDG 106 AIRPORT - ATC SIMULATOR (P)

ASSASSINS GAMES DISKS

ASI#1 - TANX, ROLLERPEDE, AMIGOIDS, CAVE RUNNER, AVATRIS
ASI#3 - MEGA BALL, DRIP! (P)
ASI#4 - JUMPER, GOMOKU, CRACKER, JUMPY , TURBO DUEL, KLONDYKE (P)
ASI#5 - GO LOOLY, RETALIATOR, RAID (P)
ASI#6 - DOWNHILL CHALLENGE, PACMAN '87, METAGALACTIC LLAMAS,WELLTRIX
ASI#7 - DESTINATION MOONBASE, TRIX, NIGHTWORKS, CLOUD RUNNER
ASI#8-AIR ACE II, H-BALL, NUMBER FUMBLER, SNAKE PIT
ASI#10 - PICKOUT , ESCAPE, SYS, PIPELINE (P)
ASI#11 - DAD, CONNEX, TOWERS OF HANOI, REVERSI, TRIPPIN' (P)
ASI#12 - CAR, LLAMATRON,POWER PONG, XFI
ASI#13 - BALL, ASTEROIDS, TWINTRIS, BLOCK-IT, SQUAMBLE, AMIGATRATION (P)
ASI#14 - CHINA CHALLENGE II, AMIGA COLUMNS (P)
ASI#15 - BATTLE CARS, MAMBA MOVE
ASI#16 - PACMAN, WASTELANDS, DILEMMA, MISSION-X (P)
ASI#17 - JETMAN, DEFENDA, TOMCAT, BUGBLASTER (P)
ASI#18 - OMEGA RACE, SKY FLYER, HENRY IN PANIC, MEGATRON
ASI#20 - AMOS COIN DROP, MICROBES,HOLLYWOOD TRIVIA, MATCH PATCH (P)
ASI#21 - ZUES, TETTRIX, TILES, BATTLEMENTS
ASI#22 - LEMMINGOIDS,DUEL, MOUTH MAN, WIZZY'S QUEST (P)
ASI#24 - REVENGE OF THE MUTANT CAMELS, NEBULA, CROAK, 3D MAZE, DUX (P)
ASI#25 - E-TYPE, ASTEROIDS, HEMROIDS, COPPER, MR WOBBLY, MR BRICK (P)
ASI#26 - SUPER PACMAN '92, SMASH TV, ASHIDO, BALLY III, SYSTEM IV
ASI#36- WONDERLAND, SUB ATTACK, MOTHER LODE, TACTIX, DONKEY KONG (P)
ASI#37 - KLAKTRIS, PACCER, POD, GHOST SHIP (P)
ASI#38 - ONE ON ONE, SKYFLYER 2, BALDY, TRANSPLANT, (P)
ASI#28 - DOODY, DR MARIO, INVADER II, FLAG CATCHER, MAD BOMBER (P)
ASI#29 - DOG, ROME, NOVA, BRIDGE BALL, ATTACKS, QUADRIX (P)
ASI#30 - CHROME, TANK ATTACK, TOTAL FIRE, BOUNCE'N'BLAST (P)
ASI#31 - ISHID-O-MATIC, CRAZY PIPES, ARAZMAX, REVOLUTION (P)
ASI#32 - BLOB, FIRE FIGHTER, SECTOR ONE (P)
ASI#33 - TOTAL WAR, HYPERBALL (P)
ASI#34 - TRAIL BLAZER, Q-BIX, RUSH HR (P)
ASI#35 - PONG, SNAKEPIT, JUMP & ROLL ,CYBERNETIX (P)
ASI#39 - NEW CARD GAMES (P)

ASSASSINS PACK

THIS IS A **NEW** COLLECTION OF THE FIRST 35 ASSASSINS GAMES DISKS. THERE ARE OVER 120 GREAT GAMES ON THIS PACK...ALL MENU DRIVEN..EASY TO USE ....IDEAL FOR KIDS

ALL 35 DISKS FOR ONLY....

£34.95

ASI#40 - PUZZLE COLLECTION (P)
ASI#41 - PACMAN DELUXE, LEAP II, TRACTOR BEAM, HELLZONE 1 & 2
ASI#42 - GALAGA 92, DOGS IN SPACE, INTRUDER ALERT,
ASI#43 - OCTOTHELLO, ROULETTE, CROSS MAZE, INTERLOCK, LEAPFROG, GAMEBOY TETRIS
ASI#44 - GALAXY 89, MOUSE IMPOSSIBLE, ROLL ON, NIBBLER
ASI#47 - ELEVATION, FURMYRE, CRAVE, ARENA
ASI#48- PSYCHO SANTA, POINT TO POINT, WARRIOR, CRYPTO KING
ASI#49 - CRAZYSUE, DEATHBRINGER IN SPACE CRAZY SUE II, ASSAULT
ASI#50 - EUPHORION, ROACH MOTEL, BALDERS GROVE + EDITOR
ASI#51 - LAMERS, FIGHTING WARRIORS, SHAPES
ASI#52 - ROCKSLIDE, MOUTHMAN, NU
ASI#53 - SUPERCUBE, MASTERMIND, INVADER, SPLASH, POWER WARS, VELCRO CROSS QUANDONG, KINGS
ASI#54 - SERENE, CAR WARS, SERENE II
ASI#55 - CUTRIS, PACATAC, ASTEROIDS
ASI#56 - PICTURE TILES, STORMEAGLE, EXTREME VIOLENCE
ASI#57 - POO POO, DOMINOES, DIZZY DIAMONDS, SQIRMS
ASI#58 - SUPER RAID, MAGNATRON, MAIYESSAE
ASI#59 - TURBO THRUST, GX200, LEEDINGS
ASI#60 - PIPE MASTER 2, ALIEN HUNTER, CHINESE CHECKERS
ASI#61 - BATTLESNAKE, RUNNING, CHASER, SCUD BUSTER
ASI#62 - PIPELINE 2, MAZEMAN, UP'N'DOWN
ASI#63 - NAUTILUS, FRENZY, DRIVE IFF
ASI#64 - OBLIVION, BREAKOUT CONSTRUCTION KIT, DRIVE WARS
ASI#65 - COW WARS, AMASTERMIND, ASOKOBAN
ASI#66 - PARANOIDS,WORD SEARCH, MIRRORWARS, WORDS PUZZLE, CHESS
ASI#67 - SEIGE OF THE BEAST, E-TYPE II, VECTOR
ASI#68 - DEMOLITION MISSION, BOUNDER, ATOMS
ASI#69 - BRIDGE, KLONDYKE, POKER, KLONDYKE 2, CELESTIAL CAESAR
ASI#70 - TETRIS PRO, WANGLE, TETRIS-DIGITAL
ASI#71 - NUMBERIX, BATTLESHIP vs TANKS
ASI#73 - LEXESS, CONCENTRATION, CHALLENGER
ASI#74 - CRAZY PIPES II, BOMB JACKY, CHUTE
ASI#75 - DOUBLE SQUARES, COLOURS, DIAMOND THIEF
ASI#76- GNU CHESS, CUBUS, GERB GAME
ASI#78 - LITTLE BOULDER, HEAD GAMES, FRUIT PANIC
ASI#77 - BALLONACY, CLIFFHANGER, DESCENDER
ASI#79 - GRAVATTACK,VECTOR STORM, ATOMS
ASI#80 - ARMY MINER, FLIPPIT, GOLF, WALLY SOLITAIRE, THE GALLOWS, WHATS-IT'S-NAME

RED SECTOR INC.

POU 401 RED SECTOR DEMO MAKER WITH FULL DOCS
POU 364 RSI EXTRAS #1
POU 392 RSI EXTRAS #2
POU 393 RSI VECTOR OBJECT EDITOR
POU 394 RSI FONT EDITOR
POU 395/6/7 RSI MUSIC MODS 1,2 & 3
POU 372 RSI VECTORBALLS EDITOR
POU 365 TSB VECTOR DESIGNER

DEMOS

PDD 1 ANARCHY DEMO
PDD 7 ELVIRA DEMO
PDD 16 ROBOCOP DEMO (P)
PDD 31 ANRCHY "OOH! IT'S OBSCENE 3"
PDD 72 RED SECTOR DEMO #4
PDD 76 SCOOPEX MEGA DEMO (P)
PDD 97 PREDATORS MEGADEMO (P) 2 DISKS
PDD 98 SAFE SEX DEMO (P)
PDD 107 BUDBRAIN #1 - 2 DISKS (P)
PDD 120 CHUBBY BROWN DEMO (P)
PDD 153 BILLY CONNOLLY DEMO - 2 DSK (P)
PDD 160 HATRICK -"RAVE ON"
PDD 177 BUDBRAIN 2
PDD 287 PHENOMENA ENIGMA (P)
PDD 288 PHENOMENA TERMINATOR
PDD 311 ODDESSEY- BY ALCATRAZ ... NEARLY AN HOUR OF BLISTERING VECTOR MOVIE WITH BRILLIANT SOUND (5 DISKS)
PDD 312 HARDWIRED BY CRIONICS/SILENTS (2DISKS) VERY GOOD
PDD 313 VOYAGE - RAZOR 1911 (P)
PDD 314 RED SECTOR "TIME ZONE" (P)
PDD 315 ENJOY THE SILENTS (P)
PDD 316 DIGITAL INNOVATION - 26 MINS LONG !... BRILLIANT (P)
PDD 317 SYSTEM VIOLATION - BY ANARCHY...WORTH A LOOK (P)
PDD 318 JESUS ON E's - SUPERB!!! (P) 2 DISKS
PDD 319 ANARCHY "IN THE KITCHEN..." (P)

ANIMATIONS

PDA 12 STAR TREK - AGATRON #2 (P)
PDA 13 STAR TREK - AGATRON #17
PDA 5 MOONWALKER
PDA 54 NASA GRAPHICS
PDA 80 WALKER II - 2 DISKS, 2MB REQD (P)
PDA 82 AGATRON "ENTERPRISE LEAVING DOCK" (P)
PDA 123 STEALTHY MANOEUVERS -BY ERIC SCHWARTZ (P)
PDA 305 ANTI LEMMIN' DEMO - 2 DISKS 2MB DEFINITIVE SCHWARTZ (P)
PDA 134 THE DATING GAME - 2 DISKS 3MB ANOTHER GOOD ONE (P)
PDA 135 BUZZED - RAYTRACED, 3 DISKS, 3MB EXCELLENT GRAPHICS (P)
PDA 136 AT THE MOVIES II - BRILLIANT! 4 DISKS, WORKS WITH 1MB BUT MORE MEMORY THE BETTER (P)
PDA 138 AT THE BEACH -SCHWARTZ 3MB, 2 DSK STARRING FLIP THE FROG (P)
PDA 139 UNSPORTING - EXC. AEROTOON BY ERIC SCHWARTZ 2MB (P)
PDA 142 GULF CONFLICT - SUPERB! 2MB(P)
PDA 143 SWEET REVENGE - WILE. E COYOTE GETS THE DROP ON ROAD RUNNER........ 1.5MB REQD (P)
PDA 144 HOW TO RUN / COYOTE 2 - SCHWARTZ.... FUNNY (P)
PDA 145 AMY WALKS/ AMY JOGS/ BIG SNEEZE (P).... MORE SCHWARTZ
PDA 147 CHARLEY THE CAT -2MB, 2 DSK ,V.GOOD ANIMATION (P)
PDA 148 CHARLEY THE CAT II- 2MB, 2 DISKS(P)
PDA 149 LINUS - BRILLIANT ANIM (P)

CLIP ART

NEW...NEW...NEW...NEW...NEW...NEW...NEW...NEW
PDU 453 WEDDINGS - 2 DISKS (P)
PDU 454 HOUSES - 2 DISKS (P)
PDU 455 FANCY BORDERS 2 DISKS (P)
PDU 456 COLOURING BOOK - IDEAL FOR KIDS! (P)
PDU 457 MEN AT WORK - 2 DISKS (P)
PDU 458 WOMEN AT WORK - 2 DISKS (P)
PDU 459 SPORT - 2 DISKS (P)
PDU 460 ANIMALS (P)
PDU 461 CATS (P)
PDU 463 WORLD WAR II AIRCRAFT (P)
PDU 464 MYTHOLOGY (P)
PDU 465 CHURCH & PASTORAL - 3 DISKS(P)
PDU 466 AFRICAN WOODCUTS (P)
PDU 467 WOODCUT CATS (P)
PDU 468 WOODCUT DOGS (P)
PDU 470 ARCTIC WOODCUTS (P)
PDU 471 FARM WOODCUTS (P)
PDU 472 MIXED ANIMAL WOODCUTS (P)
PDU 473 BIRD WOODCUTS (P)
PDU 475 BANNER ART (P)
PDU 476 VEGETARIAN CLIPS (P)
PDU 478 BUSINESS (P)
PDU 479 SAILORS, FISHERMEN, SEA LIFE (P)

ALL OF THE ABOVE ARE HUGE, HIGH QUALITY IMAGES. THE DISKS ARE AUTO BOOTING WITH SLIDESHOW VIEWERS. MULTIPLE SETS ARE AVAILABLE AS SINGLE DISKS.

LATEST DISKS

PDU 487 TEXT ENGINE 4.0 - LATEST VERSION OF THIS GREAT WORD PROCESSOR NOW WITH EXC. BRITISH SPELL CHECKER (P)
PDU 488 A500 PLUS EMULATOR LOADS KICKSTART 2.0 INTO MEMORY ...BRILLIANT !
PDU 489 PROTRACKER v3.0 - GOOD MUSIC TRACKER (P)
PDU 490 GRINDER - GRAPHICS CONVERSIONS FROM PC/MAC TO AMIGA (P)
PDU 491 QMJ v5.31 - THE QUARTERNION MANDELBROT JULIA (P)
PDU 492 WHOM III -DATABASE ON STAR TREK AND TNG...VERY GOOD ! (P)
PDU 493 PERM CHECK PLUS -GOOD (P)
PDU 494 DATABASES - BBASE 5.5, DATAFILER, ADDRESSER & VIDEOMAXE (P)

MORE NEW CLIPART

PDU 495 TRAVEL 2 DISKS (P)
PDU 496 GOLF HUMOUR (2 DISKS) (P)
PDU 497 SPACE (P)
PDU 498 US NAVY (P)
PDU 499 FAMILY SCENES (P)
PDU 501 SPORTING / BASEBALL (P)
PDU 502 SOFT SCENE - LANDSCAPES (P)

PDD 324 ANARCHY 3D DEMO II (P)
PDD 325 JOYRIDE BY PHENOMENA (P)
PDD 326 STATE OF THE ART..... SPACEBALLS (P)
PDU 500 TRIONI CAD v1.0 -BRILLIANT DESIGN PROGRAM, WELL REVIEWED (P)
PDG 157 CRAZY SUE II (P)
PDU 503 TV & VIDEO GRAPHICS - 8 DISKS, A SUPERB SET FOR THE VIDEO TITLING ENTHUSIAST (P)
PDU 506 HARLEQUIN VIDEO FONTS #1 (P)
PDU 507 HARLEQUIN VIDEO FONTS #2 (P)
PDU 508 HARLEQUIN VIDEO CLIPART (P)

NEW FOR *AMIGA* A1200

PDA 150 WIERD SCIENCE AGA S/SHOW #1
PDA 151 WIERD SCIENCE AGA S/SHOW #2
PDA 152 WIERD SCIENCE AGA S/SHOW #3
PDA 157 WIERD SCIENCE AGA S/SHOW #4
PDA 153 SUPER HAM SLIDESHOW #2 - AGA SLIDESHOW....VERY GOOD
PDA 154 SUPER HAM S/SHOW #4 - AGA
PDA 155 SUPER HAM S/SHOW #5 AGA
PDA 156 SUPER HAM S/SHOW #6 - AGA
PDD 327 HOIS AGA DEMO - THE VERY FIRST AGA ONLY DEMO..GREAT FX & MUSIC

PDU 504 GOLF SCORE v1.84 (P)
PDU 505 PICTURE CONVERTOR v1a - ANOTHER PC TO AMIGA IFF FORMAT CONVERTOR (P)
PDU 509 SLIDESHOW GENERATOR v3.2 (P)
PDU 510 ICON EDIT v 1.0 (P)
PDU 511 ASSASSINS PRINTER UTILS (P) - LABEL PRINT, LABEL BASE, HYPERCAT, SUPER RET LAB
PDU 512 ADDRESS PRINT v3.0 - ADDRESS LABEL UTILITY (P)
PDU 513 ASSASSINS AUDIO MAGIC vol 3.0 - LOADS OF PLAYERS, TRACKERS & MUSIC RIPPERS WITH FULL DOCS (P)
PDG 158 TEXAS CHAINSAW MASSACRE - A BRILLIANT GAME (POSSIBLY CREATED WITH THE CHOP-EM-UP-CONSTRUCTION KIT) NOT FOR KIDS(P)
PDG 159 CLASH OF THE EMPIRES - NAPOLEONIC WAR SIMULATOR (P)
PDG 160. MASHIE NIBLICK - SIMPLE GOLF GAME FOR THE AMIGA (P)
PDU 514 V-MORPH v2.21 - PD MORPHING PROGRAM VERY LATEST VERSION (P)
PDU 516 TELE SCROLL 1 VIDEO TITLING SOFTWARE ..V.GOOD! (P)
PDU 517 TELE TITLE 2 TITLING SOFTWARE (P)
PDU 518 TELE TITLE 2 LO-RES (P)
PDU 519 MAJOR LEAGUE KEEPS TRACK OF YOUR TEAM'S SCORES (P)
PDU 520 PC-TASK v2.01 LATEST VERSION OF THIS PC EMULATOR NOW SUPPORTS VGA GRAPHICS IF YOU HAVE THE AGA CHIPSET(P)
PDU 521 AMOS PRO UPDATER v1.12 (P)
PDU 522 WINDOW BLENDER (1200 ONLY)
PDU 523 SUPERSOUND UPDATER THIS PD DISK WILL UPDATE LICENCED VERSIONS OF SUPERSOUND (v3.0, 3.2 &4.1) TO THE LATEST VERSION

PD & LICENCEWARE PROGRAMMERS
AS ONE OF THE LEADING DISTRIBUTORS OF PUBLIC DOMAIN, SHAREWARE & LICENCEWARE IN THE U.K. WE WOULD BE PLEASED TO REVIEW ANY PROGRAMS THAT YOU HAVE WRITTEN OR COMPILED. JUST SEND THEM TO US LABELLED **"SUBMISSIONS"** TOGETHER WITH YOUR NAME AND ADDRESS. ALL DISKS WILL BE RETURNED

LATEST DISKS CONTINUED............
PDG 161 18 HOLE GOLF AT LAST A GOOD PD GOLF GAME FOR THE AMIGA (2 DISKS) WORKS ON ALL MACHINES
PDD 328 MINDWARP DEMO ANOTHER BLISTERING DEMO FROM TEAM HOI...ONLY FOR AGA MACHINES
PDD 329 1200 DEMO COLLECTION GOOD SELECTION WITH A NIFTY LITTLE PROGRAM THAT FAKES FAST RAM ON THE 1200
PDD 330 MADE IN CROATIA DEMO RECENT PARTY WINNER...UNSCOFTABLE (P)

GRAPEVINE ISSUE 16

THIS IS THE LATEST COPY OF THE BEST DISK MAGAZINE...BAR NONE. THERE ARE OVER THREE HUNDRED DIVERSE ARTICLES ON THREE DISKS. HIGHLY RECOMMENDED READ (SOME ADULT HUMOUR)

ALL 3 DISKS FOR ONLY

£3.75

WE ALSO HAVE ISSUES 1 TO 15...PLEASE CALL FOR DETAILS

PDD 331 PANTA RHEI DEMO BY TALENT - ...SUPER DEMO AGA ONLY
PDA 152 NIGHTBREED AGA SLIDESHOW 2 DISK SET ....1200 ONLY
PDA 153 AGA "BABES" SLIDESHOW BY WIERD SCIENCE...TASTEFUL PIN UPS -2 DISKS (1200 ONLY)
PDG 162 AGA TETRIS (1200 ONLY GAME)
PDG 163 SOLITAIRE SAMPLER BY SERIOUS SOFTWARE ...GOOD (ALL AMIGAS)
PDG 164 ASOKOBAN & SOLAR STAR WARS (OK ON ALL MACHINES)
PDG 165 NUMERIX EXC. GAME (P)
PDG 166 VEKTOR LIGHT CYCLES A VERY ADDICTIVE GAME (P)
PDG 167 QUIZ MASTER 2 TEST YOUR GENERAL KNOWLEDGE (ALL MACHINES)
PDG 168 GUNSLINGER GOOD ADDICTIVE 2 PLAYER GAME (P)
PDU 524 ACCOUNT MASTER v2.13 VERY GOOD HOME FINANCE PROGRAM....WELL REVIEWED - WORKS ON ALL AMIGAS
PDU 525 SUPER VIEWER v 2.4 SLIDESHOW UTILITY.....NEW (P) (1200)
PDU 526 KING FISHER v1.2 DATA BASE ON THE CONTENTS OF THE FRED FISH COLLECTION OF DISKS (P) (1200)
PDU 527 MUSIC ENGINE v 1.32 LATEST VERSION OF THIS MULTI FORMAT MUSIC PLAYER....WILL PLAY MOST FORMATS - INCL. 8 CHANNEL OCTAMED (P) (1200)
PDU 528 ASI BOOT UTILS (P) LOTS 'N LOTS OF USEFUL BOOT UTILS
PDU 529 ASI CRUNCH 'N' COPY 2 - A DISK FULL OF COMPRESSION UTILS & DISK COPY PROGRAMS

ASSASSINS PACK 2

ANOTHER 35 OF THE LATER ASI GAMES. 120+ GAMES .... THEY ARE AGAIN VERY WELL PRESENTED... EASY TO USE AND MAKE IDEAL PRESENTS FOR KIDS & ADULTS ALIKE!

ALL 35 DISKS FOR

£34.95

PDU 530 KICK 1.3 WORKS ON WB2.0 AND WB 3.0 MACHINES. LOADS A 1.3 ROM INTO MEMORY, MAKING LATER MACHINES MORE COMPATIBLE WITH OLDER SOFTWARE.
PDU 531 AUDIO MAGIC 4 ANOTHER COLLECTION OF MUSIC TRACKERS, RIPPERS AND OTHER UTILS. WORKS ON ALL AMIGAS

CATALOGUE DISK

OUR CATALOGUE DISK CONTAINS DETAILS OF ALL OF OUR EXTENSIVE COLLECTION. PLEASE SEND 3 FIRST CLASS STAMPS FOR YOUR COPY. ALTERNATIVELY, YOU CAN HAVE ONE FREE WITH YOUR ORDER ON REQUEST

LICENCEWARE

THESE DISKS COST £4.99

SUPERSOUND 4.12 THIS SUPERB SOUND SAMPLING SOFTWARE WILL WORK WITH ANY STANDARD PARALLEL HARDWARE. IT HAS A HOST OF REALTIME EFFECTS AND IS A GOOD UPGRADE TO THE STANDARD SOFTWARE SUPPLIED WITH MOST SAMPLING KITS. INCLUDES KEYBOARD PLAYER AND TREG 1.5....**£4.99**
FORMULA ONE CHALLENGE THIS IS THE RENOWNED F1 MANAGEMENT PROGRAM FROM ANDY RENNOCKS. IT IS VERY ADDICTIVE....BUY IT! **£4.99**
POWERBASE v2.2 A GREAT DATABASE FROM AMIVISION. WELL WORTH A LOOK.PREVIOUSLY AVAILABLE FROM DEJA VU...NOW AVAILABLE DIRECT FROM USAT ONLY **£4.99**

MUSIC MAKERS PACK

THIS EXCELLENT 10 DISK PACK CONTAINS **MED 3.2** MUSIC EDITOR, **SOUNDTRACKER 2.6** AND **STAR TREKKER 1.3** TOGETHER WITH 7 DISKS OF GREAT MODULES AND SAMPLES. THIS IS A GREAT PACK FOR THE BUDDING MUSICIAN. AND AS A **BONUS** WE ARE NOW INCLUDING THE ASSASSINS **AUDIO MAGIC 4** DISK **FREE** WITH EVERY PACK

THE BEST SELLING MUSIC PACK

£12.00

THE FRED FISH COLLECTION IS AVAILABLE 1- 900

PLEASE NOTE THAT WE HAVE RECENTLY MOVED TO LARGER PREMISES, BUT DONT WORY IF YOU HAVE SENT YOUR ORDER TO OUR OLD PLACE...WE ARE STILL COLLECTING THE MAIL AND YOUR ORDER WILL BE DESPATCHED ASAP

MasterCard

HOW TO ORDER

VISA

DISK PRICES

1 - 9	£1.75 each
10 - 19	£1.50 each
20+	£1.25 each
Deja Vu disks	**£3.99 each**

P = Compatible with A600 / A500 Plus

Postage & Packing is FREE on all orders of 3 disks or more. Less than 3 disks please add**£1.00.**

Europe add **25p** per disk.
Rest of World add **50p** per disk.

PAYMENT

We accept all major credit cards
Please make cheques and P.O's payable to
PD DIRECT and send to:

PD DIRECT
DEPT. CU10
8 FRIAR STREET
NEWCASTLE
STAFFORDSHIRE
ST5 2EZ

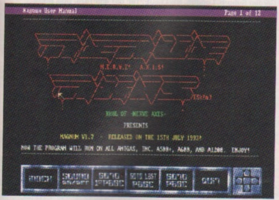
PERSONAL CALLERS WELCOME .... WE ARE OPEN FROM 9.30 - 5.30 MONDAY TO SATURDAY

TELEPHONE OR FAX

0782 715255

PD UTILITIES

With more utilities than Batman's belt, here comes Tony Horgan with another round-up of the more serious side of the public domain.



Magnum User Manual Page 1 of 12

N.E.R.V.E* A.X.I.S*

RHOG OF -NERVE AXIS-

PRESENTS

MAGNUM V1.7 - RELEASED ON THE 15TH JULY 1993!

NOW THE PROGRAM WILL RUN ON ALL AMIGAS, INC. A500+, A600, AND A1200. ENJOY!

MAGNUM V1.7

diskmag creator

Diskmags are everywhere at the moment. Some have trendy demos and shiny metallic interfaces, while others are little more than a collection of ReadMe files thrown onto a disk. If you want to get in on the act, but don't have the programming skills to create your own interface, *Magnum* can help you out.

The *Magnum* program isn't really a diskmag creator, it's more of an editable diskmag. To turn this into your own mag, all you need to do is replace the text files with those of your own, include your own graphics (so long as they're NTSC size rather than PAL), and MED, OctaMED or Tracker files can be played in the background. The central controller program is along the lines of the interfaces used by Grapevine and Raw. It's not as sophisticated as some, but it's far easier to use than others. An excellent option for budding diskmag editors.

Available from: Cynostic PD, 25 Monks Road, Coventry, CV3 2BQ. Tel 0203 613817. Disk no. U0207. Price: £2.00 including P+P. Memory: 1Mb. Compatibility: All Amigas.

93%

DISKMASTER III

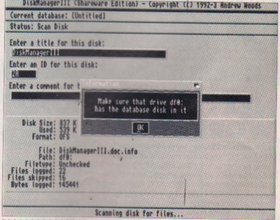
disk cataloguer

Putting order into a collection of floppy disks is an uphill struggle, but *Diskmaster* eases the burden.

Its primary use is to keep track of which files are on which disks. This means you'll have to feed it every one of your disks, and let it read the directories so it can add them to its list. You'll also need to repeat the process every so often with any new disks you've created or altered. Another of its useful features is that if you've run out of space on your current disk, it can tell you which of your other disks has sufficient free space to save the current file. To get the most out of *Disk Manager*, you've got to be organised enough to keep the database updated. If you can handle that, it should prove a useful addition to your collection.

Available from: Cynostic PD, 25 Monks Road, Coventry, CV3 2BQ. Tel: 0203 613817. Disk no. U0214. Price: £2.00 including P+P. Memory 512K. Compatibility: All Amigas.

79%



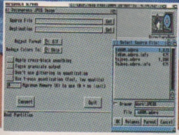
```
DiskManagerIII (Shareware Edition) - Copyright (C) 1992-3 Andrew Woods
Current database: [Untitled]
Status: Scan Disk

Enter a title for this disk:
DiskManagerIII
Enter an ID for this disk:
2A
Enter a comment for t

   Disk Size: 837 K
        Used: 539 K
      Format: OFS

        File: DiskManagerIII.doc.info
        Path: df0:
    Filetype: Unchecked
 Files logged: 22
Files skipped: 16
 Bytes logged: 145441

Scanning disk for files...
```

```
Information
Make sure that drive df0:
has the database disk in it
OK
```

DPEG

picture convertor (WB2+ only)

DJPEG is a simple picture file convertor. It can load JPEGs and save them out as either TARGA, PPM or GIF files, but strangely there's no IFF support. Because of this, it'll be of most use to anyone who needs to convert files for systems other than the Amiga. Should this be expanded to load and save the whole range of current picture file formats, including IFF, DJPEG could become a very popular utility, as it's a breeze to use with its simple file requestor and icons. It's a shame it's only half way there.



Available from: 17 Bit, 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorks, WF1 1DH. Tel: 0924 366982. Disk no. 2700. Price: £2.00 including P+P. Memory: 1Mb. Compatibility: Workbench 2.04+.

60%

»

A DEEP SPACE NINE special

THE FINAL FRONTIER ISSUE 5

diskmag

Okay, so it's not a utility, but I thought I'd mention it as we're on the subject of *Star Trek*. It's a four-disk mag that's packed with all sorts of articles and pictures about the world's favourite sci-fi series. Bjorn Lynne supplies the sounds, and a cast of plenty supply the rest, in one of the slickest disk mags around. A must for *Star Trek* fanatics.
Available from: Cynostic PD, 25 Monks Road, Coventry, CV3 2BQ. Price:£7 including P+P. Memory: 1Mb. Compatibility: All Amigas.

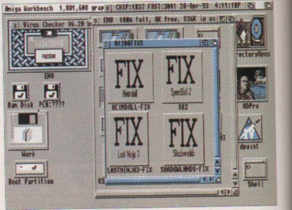
90%

ASSASSINS A1200 FIX

compatibility utilities

Trying to get old software to run on a 1200 can be a big problem, but now the renowned PD game compilers Assassins have put together a disk of all the best PD A1200-compatible utilities. This is what you get: A1200 *RUN*, *Kill AGA*, *Degrader*, *Run It*, *Fake Memory*, *Fake Fast*, *Full view*, *Kickstart 1.3 patcher*, and specific A1200 fixes for *Heimdall*, *Speedball 2*, *Last Ninja 3* and *Shadowlands*. Even with all that lot you won't be guaranteed compatibility with older software, but you'll stand a much better chance of getting things running.
Available from: Roberta Smith DTP, 190 Falloden Way, Hampstead Garden Suburb, London, NW11 6JE. Tel: 081 455 1626. Disk no. UT600. Price: £1.40 including P+P. Memory: 2Mb. Compatibility: A1200/A4000.

90%

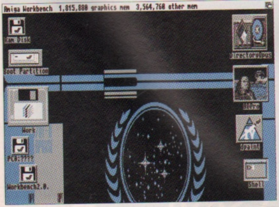

Amiga Workbench 1,081,608 grap
CHIP:1837 FAST:3041 20-Apr-93 4:11:10P
Virus Checker V6.20
ENV 100% full, 0K free, 836K in us
A1200FIXS
FIX
Heimdall
FIX
Speedball 2
FIX
Last Ninja 3
FIX
Shadowlands
HEIMDALL-FIX
SB2
LASTNINJA3-FIX
SHADOWLANDS-FIX
PRESENT
ENV
Ram Disk
PCB:????
Work
Boot Partition
ectoryOpus
ADPro
dpaint
Shell

NEXT GENERATION WORKBENCH

alternative workbench (WB2+ only)

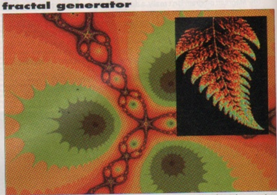
Trek fans can now jazz up their Workbench with this customised Next Generation version. It's pretty much the same as a normal Workbench disk, but comes with a sprinkling of Next Generation sounds and graphics. There's a Starfleet Command backdrop, and an extra disk with sound samples from the series. Disk changes are acknowledged by bleeps and warbles, and there's a nice alternative speech synthesiser that's a bit easier to understand than the old Amiga voice. There's also a screen saver that draws pretty patterns while you're not using the computer.
Available from: Gary Burdekin, 18 Station Road, Ilkeston, Derbyshire DE7 5LD. Tel: 071 281 2748. Price: £2.00 including P+P. Memory: 1Mb. Compatibility: Workbench 2 and above.

81%


Amiga Workbench 1,815,888 graphics mem 3,564,768 other mem
Ram Disk
Boot Partition
Work
PCB:????
Workbench2.0.
DirectoryOpus
ADPro
dpaint
Shell

MANDELPLOT 2.4

fractal generator



Wait a minute! Don't skip this one because it's just another fractal generator, because it's not! It's the fastest, most user-friendly and versatile example the public domain has to offer. It does all the usual fractal patterns you've seen countless times before, but what makes it special are the alternative patterns it comes up with, and the sheer amount of features on the menu. This unregistered PD version gives you a choice of 10 preset fractal algorithms. A further 23 fractals are ghosted, available when you register.

The PD version also lets you input your own formula. Zoomed animations are easily created, and you can choose from a massive range of 2D or 3D styles. Going by the demo pics that come with the disk, you can even generate plant-like images, presumably one of the features you'd get with the registered version.

Anyone remotely into graphics or freaky video should get hold of it pretty damn pronto.
Available from: Cynostic PD, 25 Monks Road, Coventry, CV3 2BQ. Tel: 0203 613817. Price: £2.00 including P+P. Memory: 1Mb. Compatibility: All Amigas.

91%

AMIGA NEW LOW PRICES!

FROM SILICA SYSTEMS – THE UK's No1 AMIGA SPECIALISTS

NEW! - RACE 'N' CHASE AMIGA 1200 PACK

FREE! FROM SILICA

ZOOL SOFTWARE PACK

ZOOL is the software pack of the year. It includes: Zool, Transwrite, Pinball Dreams and Striker - Value £127.92.

All Amigas from Silica (excluding A600 Standalone and Amiga 4000) include a FREE ZOOL pack as well as GFA Basic and Photon Paint II.

ZOOL - Platform Title of the year - 97% Amiga Comp - Nov '92	£25.99
TRANSWRITE - Word Processor and Spell Checker	£49.95
PINBALL DREAMS - Pinball Simulation - 94% AUI - Sept '92	£25.99
STRIKER - Soccer Simulation - 94% CU Amiga - June '92	£25.99
ZOOL PACK:	£127.92
GFA BASIC v3.5 - Powerful Basic Programming Language	£50.00
PHOTON PAINT II - Powerful Graphics Painting Package	£89.95
TOTAL VALUE:	**£267.87**

WORTH OVER £265

AMIGA 500PLUS
CARTOON CLASSICS

SAVE £100!
2Mb VERSION +£30
INCLUDES BUILT-IN BATTERY BACKED CLOCK
FREE! ZOOL PACK + GFA + PHOTON

1 YEAR RETURN TO SILICA WARRANTY

FREE DELIVERY

PACK INCLUDES:

1Mb AMIGA 500PLUS	£299.99
BUILT-IN 1Mb DRIVE	–
A520 TV MODULATOR	–
THE SIMPSONS	£24.99
CAPTAIN PLANET	£25.99
LEMMINGS	£25.99
DELUXE PAINT III	£79.99
FREE FROM SILICA (See Top Left)	£267.87
TOTAL PACK VALUE:	£724.82
LESS PACK SAVING:	£525.82
SILICA PRICE:	£199.00

1Mb RAM	SRP ~~£299~~ £199 INC VAT - AMC 0592
2Mb RAM	SRP ~~£329~~ £229 INC VAT - AMC 0592 + RAM 0520

AMIGA 600
STANDALONE

2Mb VERSION +£30
FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

We are pleased to offer the Amiga 600 with Photon Paint II, at a new low Silica price of only £199, a full £100 saving off the previous price.

PACK INCLUDES:

1Mb AMIGA 600	£199.99
BUILT-IN 1Mb DRIVE	–
BUILT-IN TV MODULATOR	–
PLUS! FREE FROM SILICA:	
PHOTON PAINT II	£89.95
TOTAL PACK VALUE:	£289.94
LESS PACK SAVING:	£90.94
SILICA PRICE:	£199.00

1Mb RAM	PREVIOUSLY ~~£299~~ £199 INC VAT - AMC 0625
2Mb RAM	PREVIOUSLY ~~£329~~ £229 INC VAT - AMC 0625 + RAM 0585

AMIGA 600
LEMMINGS PACK

2Mb VERSION +£30
FREE! ZOOL PACK + GFA + PHOTON

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

1Mb AMIGA 600	£199.99
BUILT-IN 1Mb DRIVE	–
BUILT-IN TV MODULATOR	–
DELUXE PAINT III	£79.99
LEMMINGS	£25.99
FREE FROM SILICA (See Top Left)	£267.87
TOTAL PACK VALUE:	£573.84
LESS PACK SAVING:	£344.84
SILICA PRICE:	£229.00

1Mb RAM	PREVIOUSLY ~~£299~~ £229 INC VAT - AMC 0666
2Mb RAM	PREVIOUSLY ~~£329~~ £259 INC VAT - AMC 0666 + RAM 0585

AMIGA 600
WILD, WEIRD & WICKED

2Mb VERSION +£30
FREE! ZOOL PACK + GFA + PHOTON

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

1Mb AMIGA 600	£199.99
BUILT-IN 1Mb DRIVE & TV MODULATOR	–
DELUXE PAINT III	£79.99
MICROPROSE GRAND PRIX	£34.99
SILLY PUTTY	£25.99
PUSH OVER	£25.99
FREE FROM SILICA (See Top Left)	£267.87
TOTAL PACK VALUE:	£634.82
LESS PACK SAVING:	£405.82
SILICA PRICE:	£229.00

1Mb RAM	PREVIOUSLY ~~£299~~ £229 INC VAT - AMC 0649
2Mb RAM	PREVIOUSLY ~~£329~~ £259 INC VAT - AMC 0649 + RAM 0585

AMIGA 600HD
EPIC + HARD DRIVE

INCLUDES HARD DRIVE
2Mb VERSION +£30
FREE! ZOOL PACK + GFA + PHOTON

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

1Mb AMIGA 600	£199.99
BUILT-IN 1Mb DRIVE & TV MODULATOR	–
20Mb HARD DISK	£149.00
EPIC - A SCI-FI ADVENTURE	£29.99
ROME - ROLE PLAYING ADVENTURE	£25.99
MYTH - STOP THE SPREAD OF EVIL	£19.99
TRIVIAL PURSUIT - POPULAR QUIZ	£29.99
FREE FROM SILICA (See Top Left)	£267.87
PACK VALUE:	£722.82
PACK SAVING:	£423.82
SILICA PRICE:	£299.00

2Mb VERSION + £30

1Mb RAM	20Mb HD	£269 INC VAT - AMC 0780
1Mb RAM	64Mb HD	£349 INC VAT - AMC 0864
1Mb RAM	85Mb HD	£399 INC VAT - AMC 0885

AMIGA 1200
RACE 'N' CHASE

FREE! ZOOL PACK + GFA + PHOTON
NEW!

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

- 68020EC Processor
- 14.19MHz Clock Speed
- 32-bit Architecture
- 2Mb Chip RAM
- Amiga DOS v3.0
- Built-in TV Modulator
- 16.8 Million Colours - 256,000 on Screen
- AA Chip Set for Enhanced Graphics
- 1 x 32-Bit CPU/RAM Expansion Slot
- PCMCIA Smart Card Slot takes 512K, 1Mb or 4Mb PC Cards
- 96 Key keyboard with Integral Numeric Keypad
- 2.5" Internal IDE Hard Drive Options - see column on right
- 1 Year On-site Warranty
- FREE GIFTS FROM SILICA (See Top Left)

RACE 'N' CHASE
NIGEL MANSELL'S WORLD CHAMPIONSHIP
+
TROLLS
ENHANCED AGA SOFTWARE

NEW! AA CHIPSET

2Mb RAM	RRP ~~£399~~ £299 INC VAT - AMC 1224

AMIGA 1200
RACE 'N' CHASE + HARD DISK

OFFICIAL UPGRADE

FREE! ZOOL PACK + GFA + PHOTON
85Mb

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

Silica offer the Amiga 1200 with a choice of hard drives. These are legal 2.5" hard drives which fit properly, below the metal safety shield. All of Silica's upgrades are approved by Commodore and both the A1200 and hard disk are fully covered by Commodore's official on-site warranty with WANG. Some dealers fit a 3.5" drive to save cost, but remove the safety shield to make it fit. This 3.5" drive invalidates the warranty. Look for the special sticker to ensure that the upgraded A1200 you buy is 2.5" and an official Commodore approved version. CHECK BEFORE YOU BUY!

NEW! AA CHIPSET

2Mb RAM	20Mb HD	£379 INC VAT - AMC 1420
2Mb RAM	64Mb HD	£449 INC VAT - AMC 1464
2Mb RAM	85Mb HD	£499 INC VAT - AMC 1485
2Mb RAM	127Mb HD	£529 INC VAT - AMC 1527
2Mb RAM	209Mb HD	£599 INC VAT - AMC 1609

AMIGA 1500
HOME ACCOUNTS

FREE PC BRIDGE BOARD WORTH £100
SAVE £300!
MONITOR OPTIONAL EXTRA
FREE! ZOOL PACK + GFA + PHOTON
FULLY EXPANDABLE

FREE DELIVERY

1 YEAR RETURN TO SILICA WARRANTY

PACK INCLUDES:

1Mb AMIGA 1500	£699.99
2 x 3½" BUILT-IN 1Mb FLOPPY DRIVES	–
EXPANSION SLOTS	–
PC COMPATIBILITY	–
VIDEO SLOT For enhanced graphics	–
PC-XT BRIDGEBOARD SUPPLIED	£100.00
PLATINUM WORKS SOFTWARE Word processor, database, spreadsheet	£169.95
PUZZNIC	£24.99
TOKI	£24.99
ELF	£24.99
HOME ACCOUNTS	£29.99
DELUXE PAINT III	£79.99
AMIGA VISION	£111.63
FREE FROM SILICA (See Top Left)	£267.87
TOTAL PACK VALUE:	£1534.39
LESS PACK SAVING:	£1135.39
SILICA PRICE:	£399.00

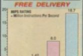
1Mb RAM	RRP ~~£699~~ £399 INC VAT - AMB 1500

AMIGA 4000
SPECIFICATIONS

MONITOR OPTIONAL EXTRA

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY



The A4000 runs at up to **21 times** the speed of the A600.

GRAPHICS:
- 16.7 MILLION COLOURS
- RESOLUTIONS UP TO 1280x512 and 800x600

OPEN ARCHITECTURE:
The A4000 has been designed for maximum flexibility providing plenty of room for memory & peripheral expansion.
- 4x16/32-BIT ZORRO III SLOTS
- 3xPC-AT SLOTS
- 1x24-bit VIDEO SLOT

POWER:
- 1.76Mb 3½" FLOPPY DRIVE

NEW! AA CHIPSET

AMIGA 4000
CONFIGURATIONS

PLUS! FREE FROM SILICA
- Amiga Vision
- Photon Paint II
- GFA Basic

25MHz 68030EC

2Mb RAM	80Mb HD	£979 INC VAT - AMB 3080
4Mb RAM	120Mb HD	£1099 INC VAT - AMB 3120
4Mb RAM	214Mb HD	£1199 INC VAT - AMB 3214
4Mb RAM	245Mb HD	£1299 INC VAT - AMB 3245
4Mb RAM	340Mb HD	£1399 INC VAT - AMB 3340
4Mb RAM	540Mb HD	£1699 INC VAT - AMB 3540

25MHz 68040

6Mb RAM	80Mb HD	£1949 INC VAT - AMB 4080
6Mb RAM	120Mb HD	£2099 INC VAT - AMB 4120
6Mb RAM	214Mb HD	£2199 INC VAT - AMB 4214
6Mb RAM	245Mb HD	£2299 INC VAT - AMB 4245
6Mb RAM	340Mb HD	£2399 INC VAT - AMB 4340
6Mb RAM	540Mb HD	£2699 INC VAT - AMB 4540

RAM UPGRADES

	RAM UPGRADED TO				
[illegible]	4Mb	6Mb	10Mb	14Mb	18Mb
2Mb	£100	£150	£300	£450	£600
4Mb	–	£50	£200	£350	£500
6Mb	–	–	£150	£300	£450

PRICES INCLUDE VAT & FREE FITTING AT TIME OF AMIGA 4000 PURCHASE. IF UPGRADE IS NOT DONE AT TIME OF PURCHASE, A FITTING CHARGE OF [illegible] IS PAYABLE

CDTV ADD-ON
FOR A500 or A500PLUS

FREE DELIVERY
FREE SOFTWARE SEE BELOW

FREE FROM SILICA:

Lemmings - Award Winning Title	RRP £34.99
Hutchinsons Encyclopedia CD	RRP £29.99
Sim City - Classic Simulation	RRP £29.99
CDPD - 600 Public Domain Titles	RRP £19.99

WORTH NEARLY £115

- Enables your Amiga 500 to run CDTV software
- Plays normal audio CD discs
- Storage capacity equal to 600 floppy disks
- Transfer time 153Kb/second
- Compatible with CD + G and CD + MIDI formats
- Compatible with ISO9660 standard
- Some old A500s need modification

HALF PRICE CDTV	RRP ~~£349~~ £149 INC VAT - CCD 0570

APPROVED

Silica Systems are a fully authorised Amiga dealer. We can upgrade Amiga 600 or 1200's with hard drives, for new or existing owners, without affecting Commodore's official on site warranty. We offer other upgrades and repair service for A500 and A500PLUS computers.

UPGRADES & REPAIRS
- *Latest test equipment*
- *20 trained technicians*
- *1,000s of parts in stock*
- *FAST, 48 hour service*
- *We can collect (£5+VAT)*
- *FREE return courier*
- *All work guaranteed*

CALL FOR A PRICE LIST

AMIGA CD32
32-BIT CD-ROM CONSOLE

FREE DELIVERY

- 32-BIT POWER
  The world's first CD-ROM console to use 32-bit technology. 4 x faster than a 68000 CPU
- CD QUALITY STEREO SOUND
- 16.8 MILLION COLOUR PALETTE
- 256K MAXIMUM COLOURS ON-SCREEN
- LOW COST GAMES - BELOW £20
- PLUGS INTO A TV OR MONITOR
- PLAYS MUSIC CDs
- DUAL SPEED
  Transfers data almost twice as fast as ordinary CD-ROM drives - makes it ideal for full screen Video CD
- MULTI-SESSION
  CD32 can recognise ALL the data on CDs, even if information has been added after the initial pressing
- FULL SCREEN VIDEO-CD
  Via an optional extra module which allows you to watch films on the CD32 - compatible with the latest Video-CD standard, endorsed by JVC, Matsushita, Philips and Sony
- HUGE MEMORY
  2 Megabytes of memory for massive games
- 11 BUTTON CONTROL PAD
- 2 FREE CD TITLES

OVER 60 TITLES EXPECTED BEFORE CHRISTMAS '93

Amiga CD32 + 2 FREE CD TITLES	£299 INC VAT - CCD 3200

ALL PRICES INCLUDE VAT - DELIVERY IS FREE OF CHARGE IN THE UK MAINLAND

[illegible]-1145

SILICA SYSTEMS - THE AMIGA SPECIALISTS

Before you decide when to buy your new Amiga computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your Amiga, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years, we are Amiga specialists and are a Commodore approved dealer. With our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

- *COMMODORE APPROVED UPGRADES:* Official Hard Drive upgrades with WANG on-site warranty.
- *FREE OVERNIGHT DELIVERY:* On all hardware orders shipped in the UK mainland.
- *TECHNICAL SUPPORT HELPLINE:* A team of Amiga technical experts will be at your service.
- *PRICE MATCH:* We match competitors on a "Same product - Same price" basis.
- *ESTABLISHED 14 YEARS:* We have a proven track record in professional computer sales.
- *£12 MILLION TURNOVER (with 60 staff):* We are solid, reliable and profitable.
- *BUSINESS + EDUCATION + GOVERNMENT:* Volume discounts are available. Tel: 081-308 0888.
- *SHOWROOMS:* We have demonstration and training facilities at all our stores.
- *THE FULL STOCK RANGE:* All of your Amiga requirements are available from one supplier.
- *FREE CATALOGUES:* Will be mailed to you, with special reduced price Amiga offers, as well as details on all Amiga software and peripherals.
- *PAYMENT:* We accept most major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

SILICA SYSTEMS

HOT LINE 081-309 1111

MAIL ORDER: CMUSR-1093	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	**Tel: 081-309 1111**	
Order Lines Open: Mon-Sat 9.00am-6.00pm	No Late Night Opening	Fax No: 081-308 0608	
LONDON SHOP:	52 Tottenham Court Road, London, W1P 0BA	**Tel: 071-580 4000**	
Opening Hours: Mon-Sat 9.30am-6.00pm	No Late Night Opening	Fax No: 071-323 4737	
LONDON SHOP:	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB	**Tel: 071-629 1234**	
Opening Hours: Mon-Sat 9.30am-7.00pm	Late Night: Thursday - 8pm	Extension: 3914	
SIDCUP SHOP:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	**Tel: 081-302 8811**	
Opening Hours: Mon-Sat 9.00am-5.30pm	Late Night: Friday - 7pm	Fax No: 081-309 0017	
ESSEX SHOP:	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA	**Tel: 0702 468039**	
Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm)	Late Night: Thursday - 7pm	Fax No: 0702 468039	

PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE

Mr/Mrs/Miss/Ms: .... Initials: .... Surname: ....

Company Name (if applicable): ....

Address: ....

....

.... Postcode: ....

Tel (Home): .... Tel (Work): ....

Which computer(s), if any, do you own? 104M

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

ADVANTAGE & PRO CALC SPECIAL OFFER

The Home Office Series
ADVANTAGE™
The Power Spreadsheet You Can Count On
MANUAL ONLY £19.95
SPREADSHEET
GRAPHICS
60
30
20
10
GOLD DISK
Home Budget
Projected
Jan
Feb
Housing Costs
Rent (or morgage)
Electricity
Gas
Water
Credit
Credit Cards
Loan
Car
Payments
Insurance
Gas
Maintenance
Repairs

Now that you've had a chance to tinker with *Advantage* you've probably realised that it's a really huge program that'll take time to master. *Advantage* offers you integrated database management and graphic facilities, a library of preconfigured spreadsheet templates and optimised output to any preferences device. Why tinker with these powerful routines when you can master them with ease by getting hold of the manual? Learn how to run multiple spreadsheets and multiple views of individual ones, how to data link, how to construct time-saving macros, and how to optimise the other user-definable functions. This manual can be yours for just £19.95.

In addition to this excellent offer, Gold Disk are also offering CU AMIGA's readers the chance to upgrade to *Professional Calc*, the successor to *Advantage*. This improved version sports a new user interface with full *Arexx* macro support, enabling not only internal programs but also more effective graph output. You can assign programs to cells which can then be run with a simple double-click. The graphics functions are some of the best available with the capability of producing presentation-quality artwork. A truly professional package.

Just fill in the coupon to the right and send it to Silica Systems, who'll process your order and despatch a copy within 28 days. Remember, these offers are exclusive to CU AMIGA – you won't find them anywhere else.

Please post to: Advantage/ProCalc Offer, Silica Systems, 1-4 The Mews, Hatherley Road, Sidcup, Kent DA14 4DX. Tel: 081 309 1111.

Please send me .... copies of the *Advantage* manual @ 19.95 per copy
Please send me .... copies of *Professional Calc* @ £49.99 per copy

I enclose a cheque for £ , made payable to Silica Systems.

Alternatively, I would like to pay by ACCESS/VISA.
My card No. is...Expiry Date..........................
Name on credit card:..

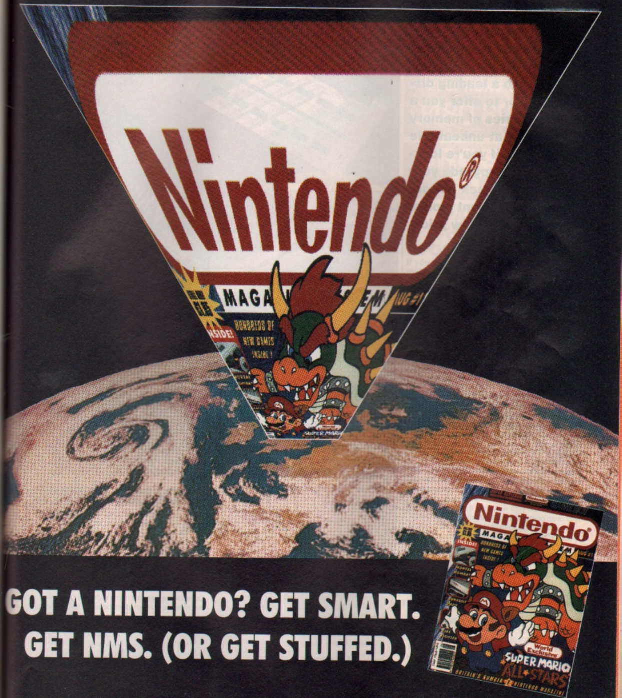
Please supply credit card holder's address if different from address listed below.

NAME: ....
ADDRESS: ....

POST CODE: ....
SIGNATURE: ....

PLEASE ALLOW 28 DAYS FOR DELIVERY

It's official: We're the best!


Nintendo
MAGA EM
AUG #1
INSIDE!
HUNDREDS OF NEW GAMES INSIDE!
SUPER MARIO
Nintendo
MAGA EM
AUG #1
INSIDE!
HUNDREDS OF NEW GAMES INSIDE!
MORTAL KOMBAT
JURASSIC PARK
FIRE FIGHTER
World Exclusive
SUPER MARIO ALL-STARS
BRITAIN'S NUMBER 1 NINTENDO MAGAZINE

**GOT A NINTENDO? GET SMART.
GET NMS. (OR GET STUFFED.)**

MEMORY UPG

Want to boost the power of your Amiga? Then look no further, as we've put together a sensational deal with a leading distributor to offer you a series of memory upgrades at unbeatable prices. And, if you're looking to upgrade your mouse, check out our own replacement mouse at a super low price.

A600 UPGRADE £24.99
A600 UPGRADE WITH CLOCK £39.99
SAVE POUNDS
ALL BOARDS POPULATED WITH MEMORY

BOOST YOUR MEMORY!

Unleash the hidden power of your machine with a memory upgrade. With more and more applications requiring a minimum of 1Mb of RAM, can you afford NOT to upgrade your machine's memory?

We've negotiated a series of cut-price deals on a range of top quality memory upgrades to ensure you get the best possible value for your money. For A500 owners there's a 512K expansion board to boost your machine up to the magic Megabyte. A500+ owners can get their hands on a $^1/_2$Mb upgrade to expand their machine to 1$^1/_2$Mb, or opt for a 1Mb board to give them a 2Mb wonder machine. For the A600, there's a 1Mb RAM upgrade complete with clock, so you'll be able to catalogue your files by date. All the boards are populated and are fitted via the trapdoor, so you won't invalidate your warranty. If that's not enough they even come with a full 12 months' guarantee.

So what's it going to cost? Not as much as you might think! Take a look at these prices...

- A500 upgrade costs only £14.50
- A500 upgrade with clock costs only £17.99
- The 1/2Mb A500+ upgrade works out at only £17.99
- The 1Mb A500+ board costs a minuscule £22.99
- A600 upgrade costs just £39.99 or without the clock a mere £24.99

The best thing about the offer is that all these prices INCLUDE POSTAGE AND PACKING! For less than the cost of a full-price game you can transform your Amiga into a super machine. Don't delay, fill in the form opposite NOW!!

IMPORTANT!

SPECIAL HOTLINE NUMBER

0480 891171

If you don't receive your goods within the allotted 28 days, then something's gone terribly wrong. Obviously we value your custom, so we've set up a special HOTLINE number to help sort out any problems or to answer any queries you might have.

Please ring 0480 891171 for all your enquiries. Don't ring the CU Amiga offices as we'll only pass you on to this number and you'll have wasted a phone call.

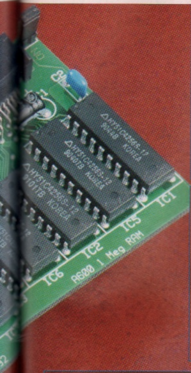
Sorry but this offer is only open to UK residents.

Fulfilment by: Go Direct, 7 Vinegar Hill, Alconbury Weston, Huntingdon, Cambs, PE17 5JA.

MOUSE OFFER

And while we're in such a generous mood, here's your chance to upgrade your mouse. If your mouse is feeling the strain, isn't it about time you retired it to the local stud farm? This high-quality replacement mouse costs a mere £9.99 and comes with durable microswitches, a 280 dots-per-inch resolution and is switchable between the Amiga and ST. The CU Amiga mouse is much more sensitive than the Commodore one that came with your original machine, so an immediate bonus is its increased accuracy and control. The microswitches also mean it's easier to click and double click than ever before. Even the most robust mouse can turn up its wheels and stop working, so here's the ideal low-cost replacement. Send for yours today!

GRADE OFFERS!


A600 1 Meg RAM
IC1
IC2
IC5
IC6

A500+
UPGRADE
£22.99
XTRA-RAM A500+

A500
UPGRADE
£14.50
XTRA-RAM A500
A500
UPGRADE
WITH CLOCK
£17.99

NEW
MOUSE
£9.99

ORDER BY TELEPHONE

VISA AND MASTERCARD TELEPHONE ORDERS

0480 891171

ORDER BY POST

PAYING BY CHEQUE AND POSTAL ORDERS

If you pay by cheque or Postal Order, make all orders payable to GO DIRECT and mark cheques with your cheque guarantee number on the reverse.

All prices quoted are inclusive of VAT and include free after-sales technical helpline on all memory upgrades.

Please allow up to 28 days for delivery. Send your completed forms to: CU AMIGA READER OFFERS, GO DIRECT, 7 VINEGAR HILL, ALCONBURY WESTON, HUNTINGDON, PE17 5JA.

☐	A500 1Mb upgrade	£14.50
☐	A500 1Mb upgrade with clock	£17.99
☐	A500+ 1/2Mb upgrade	£17.99
☐	A500+ 1Mb upgrade	£22.99
☐	A600 1Mb upgrade with clock	£39.99
☐	A600 1Mb upgrade	£24.99
☐	New Mouse	£9.99
	Total	£

Method of payment:

- ☐ Switch
- ☐ Cheque
- ☐ Postal Order
- ☐ Visa/Mastercard
- ☐ Delta

Name ....

Address ....

....Postcode..........

Telephone (day)..

Visa/Mastercard..

Expiry Date..

Signature..

OPEN ALL HOURS

WELL, NEARLY!
9am-10pm Mon-Sat
10am-6pm Sunday

AMIGA COMPUTERS

A500 Cartoon Classics	£199.00
A600 Wild Weird & Wicked	£229.00
A600 HD Epic Pack	£299.00
A1200	£299.00
A1500/A2000	£ phone
A3000	£ phone
A4000	£ phone
Monitor	£195.00

RAM & DISK DRIVES

External Disk Drive	£55.00
A570 CD Rom + software	£149.00
A500+ 1 meg Exp	£33.95
A500 int drive	£49.00
A500 512k no clock	£18.95
A500 512k + clock	£23.50
A500 + 1meg exp	£37.00
A600 1meg + clock	£44.00
A500 1.5meg	£79.00
A500 8meg, 4 fitted	£169.00
GVP 42meg	£249.00
GVP 80meg	£299.00

PRINTERS & RIBBONS

Star LC20	£133.00
Star LC100 Colour	£169.00
Star LC200 Colour	£194.00
Seikosha 24 Pin Colour	£199.00
Star LC24-200 Colour	£274.00
LC100 mono ribbon	£4.50
LC100 colour ribbon	£6.75
LC24 200 mono ribbon	£5.50
LC24 200 colour ribbon	£13.50
LC20 mono ribbon	£4.50

LEADS & CABLES

Printer	£3.99
Serial	£3.99
Null Modem	£5.99
Joystick Extender 3 metre	£3.99
Joystick/Mouse Extender	£3.99
Amiga to SCART	£7.99
Analog Joystick Adapter	£4.99
4 Player Adapter	£5.99

LOOK! LOOK! LOOK!

TRACTORFEED DISK LABELS

Now you can print your own professional disk labels! 500 Plain white disk labels on tractor feed, complete with FOUR disks of software and artwork.

Yours for ONLY
£9.95

1000 Labels with software
ONLY £13.50

SPECIAL OFFERS!!

A500 MODULATORS	**£24.50**
A500 POWER SUPPLY	**£29.95**

2.5" HARD DRIVES FOR A600/A1200

40 MEG	**£129**
85 MEG	**£189**
130 MEG	**£269**

ALL DRIVES SUPPLIED WITH LEADS AND READY FORMATTED

DISKS & LABELS

All disks are supplied with labels. UNBRANDED DISKS are 100% error free. In the unlikely event that any of our disks are faulty, then we will replace the disks **AND** reimburse your return postage!

3.5" DSDD	£0.37 each
3.5" Rainbow	£0.44 each
3.5" DSHD	£0.58 each
3.5" DSDD Fuji (box of 10)	£4.90
3.5" DSHD Fuji (box of 10)	£8.90
5.25" DSDD Fuji (box of 10)	£2.50
5.25" DSHD Fuji (box of 10)	£4.90
1000 3.5" labels	£6.50
1000 3.5" tractorfeed	£8.50

STORAGE BOXES

Most types are available for 3.5" or 5.25" disks.

10 capacity	£0.95
40 capacity	£3.49
50 capacity	£3.95
100 capacity	£4.50
80 capacity Banx drawer	£8.49
150 capacity Posso drawer	£15.95
200 capacity drawer	£22.50

VISIT OUR NEW SHOP 9am - 5.30pm Mon - Sat 9am - 1pm Thursdays

HANLEY
RING ROAD
HOPE ST
A500
M6
15
FLYOVER
A500
FESTIVAL PARK
16

MISCELLANEOUS

Mousehouse	£1.80
Mousemat 9mm thick	£2.50
Diskdrive cleaner	£1.80
A500 Dustcover	£3.50
A600 Dustcover	£3.50
A1200 Dustcover	£3.50
Monitor Dustcover	£3.50
LC20 Dustcover	£3.50
LC100 Dustcover	£3.50
LC200 Dustcover	£3.50
LC24-200 Dustcover	£3.50
Roboshift	£13.95
Amiga Lightpen	£32.00
Optical Mouse	£32.00
Megamouse	£12.95
Manhattan Mouse	£9.99
Primax Mouse	£12.95
Itsa Mouse	£12.95
Altadata Trackball	£26.95
Crystal Trackball	£32.00
Zydek Trackball	£25.95
Zyfi Amp/Speakers	£37.50
Action Replay Mk III	£56.95
Technosound	£32.00
Midi Master	£26.00
Tilt/Turn Monitor Stand	£9.95
2-piece Printer Stand	£3.49
A4 Copyholder	£5.99
ROM Sharer	£14.95
V1.3 ROM	£25.95
V2.04 ROM	£35.95
Microperf Tractorfeed Paper: 500 sheets	£4.50
2000 sheets	£13.00

JOYSTICKS

All joysticks have autofire feature except those marked *.

Trigger Grip Models	
Quickshot turbo	£6.95
Python 1M	£7.99
Jetfighter	£12.00
Topstar	£19.50
Intruder	£21.50
Base Fire Button Models	
Maverick 1M	£12.95
Megastar	£21.50
Zipstick	£12.95
Comp Pro 5000*	£10.95
Comp Pro Extra	£12.95
Comp Pro Star	£12.95
Cruiser Multicolour*	£9.95
Comp Pro Star MINI	£14.95
Aviator 1 Flightyoke	£23.50
Handheld Models	
Speedking	£10.50
Navigator	£13.95
Bug	£12.00

ANALOG JOYSTICKS

These Joysticks will fit any Amiga

Warrior 5	£14.95
Saitek Megagrip 3	£19.50
Speedking Analog	£13.95
Intruder 5	£25.50
Aviator 5 Flightyoke	£27.50
Adapter to use any PC analog joystick on an Amiga	**ONLY £4.99**

COMPUTER SUPPLIES
Direct

☎ 0782 206808 - Anytime
0782 642497 - 9.00am-5.30pm Weekdays
0630 653193/0782 320111 - Evenings & Weekends

Access EUROCARD

BUSINESS HOURS
9am to 10pm Mon-Sat, 10am to 6pm Sun
All items and offers subject to availability. E&OE
P&P £3.30 All Prices inc VAT
We accept POs, cheques & credit cards
Please write Cheque Card Number on cheque for instant clearance

MasterCard VISA

BUSINESS AND EDUCATION ORDERS WELCOME

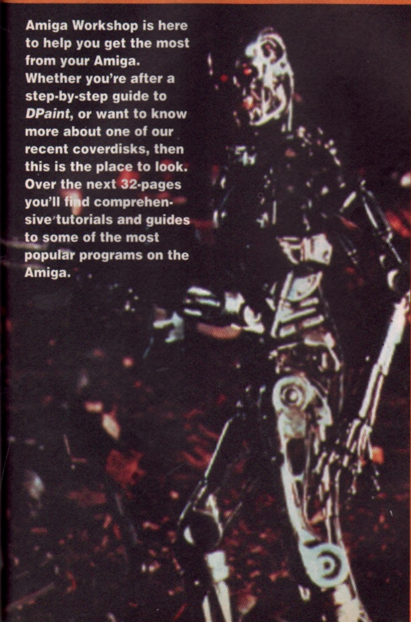
DIRECT COMPUTER SUPPLIES 36 HOPE ST, HANLEY, STOKE ON TRENT ST1 5BS

AMIGA Workshop

ISSUE 10

OCTOBER 1993

Amiga Workshop is here to help you get the most from your Amiga. Whether you're after a step-by-step guide to *DPaint*, or want to know more about one of our recent coverdisks, then this is the place to look. Over the next 32-pages you'll find comprehensive tutorials and guides to some of the most popular programs on the Amiga.



164 DPAINT

Delving deeper into the mysteries that are *DPaint*, **Peter Lee** shows how you can put some life into your matchstick doodlings. Laurence Stephen Lowry eat your heart out!

170 VIDEO TITLER

Want to make a video but don't have access to a camcorder? **Jim Strutton** shows how.

172 GETTING TO GRIPS WITH AMOS

After our *Pacman Scramble* tributes, **Dave Smithson** turns his attention to another arcade favourite – *Asteroids*. Learn how to program your very own *AMOSteroids* clone in our step-by-step guide.

174 HYPERBOOK

Delving ever deeper into our *Hyperbook* giveaway, **Jason Holborn** explores some of the program's more complex features.

176 DO IT YOURSELF

Danger! Danger! The man with the soldering iron is back and this time he's playing God. Yep, CU AMIGA's very own mad scientist, **John Kennedy**, brings you part two of his build-your-own-robot series.

178 QUESTIONS AND ANSWERS

If you've got a question, we've got the answer. CU AMIGA's very own Magnus Pike, **Mat Broomfield** attempts to soothe your computer conundrums and solve your programming problems and worries.

180 COMMS

Making all the right connections, **John Armitage** plugs into the electronic highways and byways of the *Comms* network and gives you a step-by-step guide to logging on to a bulletin board.

184 ADVANTAGE

Spreadsheets don't have to be boring. **David Ward** gets to grips with last month's coverdisk, Gold Disk's *Advantage*, and sets up his very own personal finance organiser.

190 BACKCHAT

If you've ever wondered what a nuclear bomb going off in your face is like, ask **John Mather**, as he takes the fallout from this month's batch of readers' letters.

194 POINTS OF VIEW

Arexx promised to revolutionise the way we use the Amiga, but hardware manufacturers have ignored its potential and failed to build in *Arexx* compatibility. **Jason Holborn** asks why this should be.

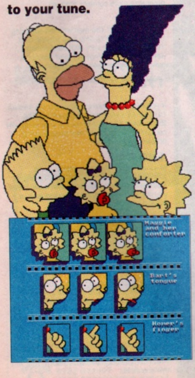
DPAINT TUTORIAL

PART

9

If animation features are the superstars of *Deluxe Paint*, then Anim brushes are the supporting cast; they can either make or break your Amiga movie.

This month CU's Peter 'Spielberg' Lee puts them in the spotlight and shows how to get them dancing to your tune.



Left: **You can use as many Anim brushes on an animation as you need. Small effects are sometimes the nicest. Here a static picture of the world's grossest family (or should that be highest- grossing family?) is brought to life with the addition of three Anim brushes, each allowing a character to move. Only Marge and Lisa are stuck for something to do, but give me time.**

Once you've mastered the basics of *DPaint*'s animation features, you'll soon find that your ambitions begin to stretch. *Deluxe Paint* is just the program you need because if ever a program made dreams come true, it's *Deluxe Paint*. This month we unearth more of its secrets by focusing on its animated brushes which offer the kind of fancy footwork which can transform an 'OK' sequence into something that'll make you go 'WOW'.

BASICS

An Anim brush is a totally different breed from a standard *DPaint* brush. Look on it as a mini-animation which can be painted on screen just like a normal brush. Although you can only see one image at a time as you move the brush around the screen, as soon as you begin to paint, however, the different 'cells' which make up the Anim brush are painted in turn. But how do they get there in the first place ? Read on...

PICKING IT UP

An Anim brush is a sequence of multiple images held in the computer's memory. So, you first of all have to create a range of images which, when played back, will give the impression of movement. This is done by animating a series of frames, as we've been doing for full-screen animations. It may help to imagine an Anim brush as a small window cut out from a complete animation sequence.

You can create your full-frame sequence by using the move requestor on an object over a number of frames (text spinning around, for example), or by copying and amending an image by hand as in the style of cartoons. We've covered the use of the move requestor fully, but there are differences in technique for hand-created animations depending on whether you are using *DPaint III* or *IV*. Here's how you would draw a multi-frame animation based on editing a single drawing. First of all, create the number of blank frames the sequence will span. Use the spare screen as your scratchpad for creating the first image, then cut it out as a brush and paste this into frame 1 of your animation and move to frame 2 (which is blank). Switch back to your spare screen and prepare to add movement by subtly altering your original drawing.

In *DPaint III* you will find it easier to call on the wide range of protective functions offered by the program. For example, background fix or stencil will allow you to safely amend original drawings, preserving the original until you free it. In any event, if you make a real hash of it, remember you always have the starting image in frame 1 as a safety net.

PENCIL TESTING

For a quick pencil test (that's tech-speak for a dummy flip through of the work in progress) go to the animation sequence and hit key 2 to cycle through the frames as fast as you like. By pressing 2 and 1 you can move backwards and forwards to get a feeling of how things are going. In *DPaint IV*, life is simplified in some ways by the inclusion of the Light Table; a feature which mimics a technique which professional cell animators use called onion skinning. (Onion skinning is a buzz-word which describes the ability to see through a number of consecutive frames as if they were transparent.) This allows for real control of object placing and editing.

BRUSH WORK

Time to join the main stream of the article now you have your animation sequence doing just what you want. Now's the time to clip out that all-important Anim brush which you'll be using as part of a bigger and better sequence.

Nothing could be simpler: go to the Anim pull-down menu, highlight Anim Brush/Pick Up and your cursor will turn into a full-screen crosshair. Position the crosshair at the top left of the area you want to pick up as an Anim brush, click the left mouse button and drag out a rectangle to encompass the whole sequence.

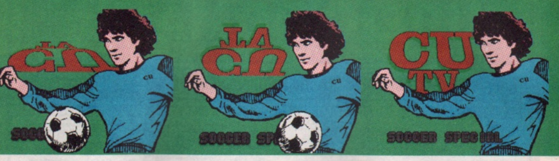
Remember: your chosen portion of animation might take up more screen area on subsequent frames than the one you're currently cutting from. Allow enough area around the edges to catch all the movement you want, otherwise you'll miss bits off. The Anim brush is not too bright because it will pick up the selected area from every frame in the current animation.

For example, if you had created five frames of movement on a 20-frame sequence, it would pick up clips from all 20 frames, leaving you with an Anim brush of five images and 15 black holes. Not clever. So always make sure the number of frames is correct before you pick up an Anim brush; delete the redundant ones beforehand.

DPaint's only real control over an Anim brush is the handy Anim brush settings requestor, which allows you to specify the duration of the brush, the starting cell number, and the direction the brush should 'play' when it's painted down.

Anim brush duration is effectively a speed control; if you have a duration figure larger than the number of actual animation frames, the Anim brush will appear to slow down. To speed it up, just make the duration smaller than the number of frames. The three direction buttons allow you to paint your Anim brush forwards, backwards or in a ping-pong fashion.

TIP – once you have captured your Anim brush, you can see exactly what's in it by keeping your finger on the 7 key. This cycles through the images in the brush.



Above: Ee-ay-addio we're not going to win the World Cup; but who cares? Stay at home and animate. This sequence has three distinct sections. For a start, the ball is itself an Anim brush. I just rotated a soccer ball around 360 degrees on a 10-frame animation and cut it out as an Anim brush.

The CU logo is another brush, which I revolved 360 degrees over 20 frames and clipped it out as – you've guessed it – an Anim brush. Using a line of text, I animated the ball across the screen in a 20-frame animation and I manually deleted the text which had not been 'revealed' on a frame-by-frame basis. Then I picked this all up as one Anim brush.

So now we have our ingredients: a soccer-player background on a 20-frame animation, an Anim brush of a revolving ball uncovering a line of text and the Anim brush of the CU logo. The only unusual part in adding these elements together was in stencilling everything out, except the background colour, when I placed the CU logo to keep it behind the footballer.

REMEMBER: by using the move requestor with all the parameters set to zero, *DPaint* will draw your Anim brush in one spot, frame by frame. This is how I placed the CU logo and ball Anim brush.

TIP - You are allowed one Anim brush AND one static brush in memory at once. If you have an active Anim brush, and then clip out a normal piece of artwork, you can access either by right clicking on the toolbar' s brush icon.

BRUSH UP ON SOME TRICKS

Anim brushes are treated by *DPaint* just as if they were static brushes with the added attraction of movement. If you have an Anim brush active and paint on screen with it, the series of images which make up the mini-animation will be painted in sequence. The same is true with all the drawing tools; from circles to rectangles.

To get the most out of this feature you'll have to be able to control the spacing requestor, which we covered in an earlier tutorial. The spacing register is called up by right clicking on the line icon in the toolbox menu. Activating N Total or Nth dot fields allows you to paint your Anim brushes at specific intervals. So, for instance, if you have a 10-cell Anim brush and set the N total field to 10, every line you draw on screen with the Anim brush active would have your whole Anim brush sequence painted along its path, regardless of whether the line was short or long. This gives some amusing effects, but nothing practical in terms of animation.

To get the most out of the Anim brush and Spacing combination you need to be able to paint an Anim brush over multiple animation frames. There's a simple way to do this. If you have an Anim brush active, a number of animation frames ready and waiting and a drawing function selected (line, circle or whatever), then by keeping the left Amiga (A) key pressed as you draw, *DPaint* will advance a frame of animation and a cell from the Anim brush automatically and paint it down.

Using this technique you can give paths to Anim brushes. A man walking on the spot in an Anim brush can be made to cross the screen during an animation, or a plane with a revolving propeller can fly by. Anim brushes give you the chance to place movement within a moving sequence and used imaginatively they will bring your work to life. CU

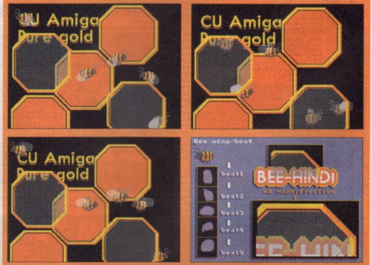
BRUSH UP ON BEES...

Here's a neat flight of fancy which pulls together several techniques and brings them to life with the addition of an Anim brush. The bee is a five-cell Anim brush, where the wings are in different positions in each cell. First of all, to make the Anim brush I drew the plump body and head on frame one of a five-frame animation and then I copied this to the other four frames. Next, working on the spare screen, I drew a chequerboard pattern of white and blank dots. Every alternate dot was the same colour as the background colour and therefore invisible, so this would give the appearance of transparency when painted on top of an existing image. Using the 'brush option' in the fill requestor allowed me to select the filled freehand tool and draw wings in various stages of flight. These wings were filled with a checked pattern. Using cut and paste from the spare screen to consecutive cells, it was simply a matter of placing the wings in the right order onto the bee's body in the animation sequence.

Being able to see through the wings added a neat touch of realism. I added a background wing in a slightly different way. First of all I darkened the original transparent-fill colour to a mid grey and drew the filled shapes directly onto the animation frames. Using the Anim Brush/Pick Up pull-down menu option, I picked up the bee and deleted the five original frames. Remember to save your Anim brush at this point for future use or editing.

I wanted a mini-swarm of the insects buzzing across screen, so I created a 20-frame blank animation as a starting point. By right clicking on the line tool I accessed the spacing requestor and changed the N total to 20 which is the same as the animation frame count. I activated the selection by clicking in the N total box. This would use the length of a line to space out 20 images taken from successive cells in the Anim brush. So, with my finger pressing the left Amiga key, and the line tool selected, I dragged out various paths across the length of the screen and watched Anim paint the Anim brush along the direction I'd drawn. I changed the angle periodically to give a sense of randomness. I also flipped the Anim brush in the X plane (key x) so I could have bees flying from right to left too. Six bees seemed plenty.

Now to add the background. Switching to the spare page I drew a simple hexagon and designed a backdrop. Adding the 20-frame animation to this should be second nature to you now. Go to the animation sequence, select Merge Behind from the Spare pull-down menu and select all frames. Your design from the spare page now becomes the background to the flying bees animation. I wanted some foreground interest too, so by using the transparent chequerboard fill in the hexagons and placing them in different locations I was able to use the Spare/Merge In Front option to overprint the existing animation. Now the bees fly over the solid patterns and behind the transparent ones.



Bees in flight coming at you every which-way. The nuts-and-bolts screens show how the bee was constructed from one body and five pairs of wings and how the semi-transparent foreground objects were created.

PUBLIC DOMAIN

NOW ALSO AVAILABLE FROM HARGWARE IN AUSTRALIA

STRICTLY PD, Dept CU, 11 YORK PLACE, NR BRANDON HILL, HOTWELLS, BRISTOL BS1 5UT

Keeping Public Domain at Strictly Public Domain Prices

All disks are compatible with the A500, those marked with '+' are also compatible with the A500 (+) and A600

LATEST DISKS

UU048 A1200 DEGRADER – Makes some A1200 incompatible software operational
UU034 C-MANUAL (4 disks) – Hundreds of examples of source code etc (+)
UU035 BASIC TUTOR – The first steps to learning how to program Amiga Basic (+)
UU036 TEXT ENGINE V3.4 – The latest version of this commercial quality wordprocessor (+)
UU037 C64 EMULATOR (2 Disks) – Emulates the C64 perfectly (+)
UU038 SPECTRUM EMULATOR – Now comes complete with sound (+)
UU039 POWERLOGO V1.2 – The best logo package in P.D. (+)
UU040 AMIGADEX – Keep your addresses etc on computer (+)
UU041 FORMS REALLY UNLIMITED – Create your own forms, invoices etc (+)
UU042 COMPOSER V2.0 – Create your own musical masterpieces with staves + notes (+)
UU043 CAPTIONATOR – Produce scrolling messages for video titling (+)

L002 CELEBRITY IMPERSONATIONS – Ever had problems leaving a message on your answer phone, this 4 disk licenceware set features recorded messages from Dame Edna, Bob Geldorf, The Queen, Robin Day, Ester Rantzen and costs £6.00 (+)

UU044 TYPING TESTER – 5 tests to check your typing capability (+)
UU045 MAGNUM V1.0 – Create a brilliant disk magazine lice grapevine (+)
UU046 NO ERRORS – Makes unusable hard errored floppies and hard disks usable by hiding the damaged tracks (+)
UU047 LOG INFO V1.2 – Amiga shopper said this is one of the best shareware progs around. Helps estimate your phone costs when using N-comm (+)
UU049 BON APETIT – Keep a record of your recipes – some included (+)
UU050 STOCK BROKER – Keep tabs on fluctuations on the money market (+)

L003 THE FINAL FRONTIER – Having recently received a 10/10 rating this superb Star Trek Fanzine is now licenceware and costs just £6.00 for the 4 disk set

CLIP ART

- The clip art in this collection is v.high quality
- Huge bitmaps, many greater than an Amiga Hires screen.
- For use in Dpaint/DTP packages
- Each disk autoboots as a slideshow allowing you to view the entire bitmap by moving the moving the mouse

ART01 Weddings clip art (2 disks) +
ART02 Houses – pictures of mansions (2 disks) +
ART03 Religious – full of holy clip art (3 disks) +
ART04 WW1 Aircraft (1 disk) +
ART05 Men 2 disks full of men at work +
ART06 Women 2 disks full of women! +
ART08 Business – office clip art (2 disks)+
ART07 Kids clip art (2 disks) +
ART09 Office – more of the same +
ART10 Students clip art +
ART11 Saletime – useful stuff inc. logos +
ART12 Xmas – a bit of Xmas cheer (3 disks) +
ART13 Punch – cartoons etc (3 disks) +
ART14 Animals – v.high quality pics +
ART15 Cats – 12 feline pics +
ART16 Silhouettes – 18 pics +
ART17 Schools (2 disks) +
ART18 Babies +
ART19 Sports – (2 disks) +
ART20 Olympic – more sporting stuff (2 disk) +
ART21 Medical clip art (2disks) +
ART22 Sealife – in deep clip art +
ART23 Decorative months – pic for every month +
ART24 Wacky comedy clip art +
ART25 Holidays +
ART26 Banners (2 disks)
ART27 Art Nouveau – floral art +
ART28 Butterflies +
ART29 Food – culinary clips(2 disks) +
ART30 Colouring Book – Colour in Dpaint
ART31 Borders – for use in DTP (2 disks) +
ART32 Mac Clip – quality macart (2 disks) +
ART33 Hornback – scenic clip art +
ART34 Teddy's Bears (2 disks) +
ART35 Vanity Fair – fashion clips (2 disks) +
ART36 Halloween clip art +
ART37 Showtime – dancing, singing etc +
ART38 Vegetarian clip art +
ART39 Floral – 14 pics +
ART40 Mystical – stars and zodiacs +
ART41 Dog woodcuts +
ART42 Cat woodcuts +
ART43 African woodcuts – more animals +
ART44 American woodcuts +
ART45 Artic woodcuts +
ART46 Farm woodcuts +
ART47 Mixed animal woodcuts +
ART48 Birds woodcuts +
ART49 More animals +
ART50 Animal lineart +
ART51 Botanical lineart +
ART52 Family scenes (2 disks) +
ART53 Golf humour (2 disks) +
ART54 Space and transport +
ART55 Softscene2 – rural clip art +
ART56 Sports 3 +
ART57 Navy – lots of navy type pics +
ART58 Travel (2 disks) +
ART59 Border and alphabet clips +
ART60 Acents and flashes +

We now have FRED FISH 1-750

USEFUL UTILITIES

UU027 Filofax – Reminds you of important appointments (+).
UU028 Bible (4 disks) – The complete King James Bible.
UU029 Taroc II – Read your own stars (2 disks)
U384 Cyclops V1.0. Art creation package. Create Plasmas etc. (+).
U527 Professional D-Copy V3.0 – As good as most commercial copiers.
U524 Intro Makers Kit – Make own intro screens with IFF pics, digitised samples and vertical/horizontal scrolled messages. (+).
U528 Multiplayer – Claims to be the most powerful, versatile music player for the Amiga (+).
U517 Kefrens Font Editors and Boot Menu Maker.
U325 Label Maker – Make your own labels.
UU030 Understanding Amos – tutorial (+).
U508 175 Utilities – The most on one disk.
U531 Powerbase V3.2 – Powerful and user friendly database (+).
U533 Thrallbound – Contains spellcheck V1.3 and Examiner V1.0 which help you to learn and tests you on foreign words. Also a good text adventure game (+).
U534 The main event – set a date and your Amiga will remind you – cross between calendar/alarm clock (+).
U535 Wordpower V1.3 – Word Utility, Spell Checking, Crosswords, Anagram solving (+).
U514 P.C. Emulator – Runs most P.C. Business Software. +
U385 Plus! (13 disks) – 13 Disks crammed with programs info etc. Entirely for A500 (+) and A600 users (+).
UU032 TDH Vol I. – Magazine aimed at Amos users. Recommended (+).
U306 Strictly P.D. Essential Collection (4 disks) – Jam packed with utilities, games, music creators and printer utils.
UU001 A-Graph – Very easy to use – Make bar & line graphs + pie charts (+)
UU002 CLI Tutorial – Learn all about the CLI. Given 70% rating in magazine (+)
UU003 MESSYSID V2 – Reads and writes PC disks. Given magazine rating of 95% (+)
UU004 Pools Predictor – Increase your chances of becoming a millionaire (+)
UU005 Disk Optimiser – Brilliantly simple! Any disk loads up to 15 times faster. Mag rating of 93% (+)
UU006 A500 Plus Emulator – Emulate the Amiga plus on your 1.3 Amiga. Really works (1meg req)
UU007 Freecopy V1.1 – Removes password protection to allow copying (+)
UU008 Cursor V1.0 – Compiler for Amiga basic programs (+)
UU009 Browser II – An alternative to SID. Some may find it easier and better. Very popular! (+)
UU010 PC Task V1.04 – Powerful multitasking PC emulator, supports CGA graphics, MS DOS, Floppies and even your Hard Drive (+)
UU011 NIB V2.0 – Removes protection and copies. Very powerful (+)
UU012 Gators Graphic Gallery – Examples and step by step tutorials on how to create professional logos like ones found in demos (+)
UU013 Fish Tank Sim – Simulates an aquarium (+)
UU014 Analticalc Spread (2 disks) – This is the best spreadsheet program to date on the Amiga (+)
UU015 Amiga Punt Program – Predict which horse will win from past form (+)
UU016 JR Comm v1.02 – Latest version of this useful modem program (+)
UU017 Beatrix Potter Clip Art – An excellent collection of clip art for any DTP program or D-Paint (+)
UU018 Plotting and Graphics (2 disks) – Contains a powerful full featured plotting prog, and a computer aided drafting prog. (+)
UU019 DB – A database with up to 50 fields, max of about 1.2 million records (+)
UU020 Home Manager – A great all in one address book with an inventory database + to do list (+)
UU021 Astro Pro Astrology –The best astrology program on the Amiga by far. (+)
UU022 Multidos V1.12 – After this disk has been installed your Amiga drives can read IBM disks (+)
UO024 Textplus V4.0 (E) – Latest update of this excellent word processor program. Now compatible with Tex, the professional typesetting prog. Found in the Fish collection (+)
UO025 Amos Lesson 1 – Find out how to get the most out of Amos. Had good review (+)
UO026 Edword 2.2 – Best text editor around. Received 9/10 from Amiga Shopper (+)
UO027 Megacolour V1.0 – A program which transforms a b/w screen into a full colour screen (+)

We now have T-BAG 1-61

75p

GAMES & EDUCATION

We now have Assassins compilation games 1-41.

N001 Total Concepts (2 disks) – Very well presented story books about Astronomy and Dinosaurs (+)
N002 American Football Coach – Play the role of an American football manager (+)
N003 Battlements – Similar to Hunchback on the Spectrum and C64 (+)
N004 Othello – The best PD version of this classic board game. Adjust skill level and facility to review where you went wrong (+)
N005 Crazy Sue – The best public domain platform game.
N006 Superleague Manager – Football management game (+)
N007 Metro – Mini Sim City (+)
N008 Smash TV the Rip Off – Great stuff (+)
N009 Henry in Panic – Jet Set Willy clone (+)
N010 Mister & Missis – Amusing and cute platform/arcade adventure with two characters to control. Excellent fun! (+)
N012 Caloriebase – Received 89% in CU Amiga. Keep a daily database of your calorie intake. Useful for dieters (+)
N013 Back Talk – Discusses common lower back problems, the causes and treatments given. Uses detailed pics + anims (+)
N014 Training Log – Make a detailed log of your fitness training (+)
N015 Spanish, French, German, Italian Tutors – Four great language tutors (+)
N016 A Visit to the Red Planet – Guided tour of Mars – fascinating! (+).
G509 ADDAMS FAMILY – Help rescue the family in this splendid playback caper (+)
G502 DELUXE PACMAN v.12 – Excellent version of the old classic (+)
G503 WAGGLE AWAY – Bizarre joystick waggling games
G504 DECENDER GAME – Clone of a old arcade classic tempest with vectorised graphics (+)
G505 ACT OF WAR – This risk clone recieved a stonking review from Amiga Format (+)
G506 GRAND PRIX SIM – See if you're got the brain to be the next Nigel Mansell
G507 A.N.N.B. – Adolescent Mutant Ninja Bedsprings Leap into action in this amusing game (+)
G508 GENERAL ELECTION – Take part in general election with this superb simulation workbench 2 only
G589 SUPER SKODA CHALLENGE – Smart car driving game with guns (+)
G396 FORMULA ONE CHALLENGE – 4 people can play in this excellent management strategy game (+).
G397 TANK ATTACK – Attempt to storm H.Q. avoiding enemy tanks – good shoot em up (+).
G398 TOP SECRET – Great text adventure with cute graphics. Given 100% in magazine review (+).
G399 TOMCAT – Fly your F-15 against enemy planes, ships and gun towers (+).
G400 FIGHTER PILOT – Superb 1st World War fighter shoot em up (+).
G380 CARD, BOARD AND ARCADE GAMES – 13 great games on 1 disk.
G381 P.D. PUZZLES – Includes puzzle pro + puzzle maker. Highly recommended.

75p

DEMOS & MUSIC

D480 FRACTALE – Excellent demo of the history of fractals.
D483 ALCATRAZ ODYSSEY (5 disks) – Probably the best demo this year.
D487 WWF PICS – The clearest Hi-Res pics I've seen.
D499 RAUNCHY SLIDES – Pictures of pretty girls.
D507 SCHWARZTOONS (3 disks) – Packed with superb cartoon demos by Eric Schwarz.
D130 SAM FOX SLIDESHOW.
D129 MARIA WHITAKER SLIDESHOW.
D470 KATHY LLOYD SLIDESHOW.
D316 MARIA WHITAKER ANIM.
D170 GIRLS OF SPORT ILLUSTRATED.
D500 DIGITAL DAMSELS.
M374 HARDCORE III – Pumping rave music and graphics.
M376 TECHNOMANIA '91 – Wire this into your Hi-Fi – excellent.
M378 NEW WAVE. Slip on your slip-ons and boogie down.
M405 EXPRESSIONS 3 – 3 Tracks with 27 minutes worth of brilliant house/rave music.
M365 ALCATRAZ – More than music – Highly original music and demo.
M352 CHART TECHNO 1 – 25 mins of altern-8 remixes.
M356 BANGING RAVES – The 2nd Coming. 11 Bands in this great remix.
M359 SUPERSYNTHS VOL 1+2 (1Mb) – Great graphics and music.

75p

BLANK DISKS

12 in own box ....£7.50 50 ....£22.50
100 ....£40.00 Mouse mats ....£2.99 each

VIDEO PRODUCTION

V001 Video Production Package (4 disks). Given 10/10 rating, complete with 50 page instruction manual – £10.00 (+).

V002 S-Movie – Smooth scrolling video titler (+)
V003 Turbotitler – Add subtitles to your videos (+)
V004 TV & Video Graphics (8 disks) – Packed with background screens for your video productions, different types of graphic styles. Peel takes an IFF pic and peels it down the screen (+)
V005 Video Production (2 disks) – Packed with video + Genlock utilities (+)
V006 Video Screens 1 – Background pictures for video production (+)
V007 Video & Anim: Video DB – keeps track of your video tape collection. RTAP lets you run large anims on small mem machines (+)
V008 Image Lab – Like a mini art dept. Tools on tap – does fades, colour bars & grey bars (+)
V009 Video: Stillstore – used to create over the shoulder graphic inserts like the 9 o'clock news
VO010 Shades & Fades Animfader – A utility to fade screens in & out. Superview will display IFF pics. Turbotitle creates subtitles (+)
VO011 Androids Back Video Grounds – Selection of B/G pictures (+)
VO012 Harlequin Video Art & Font Disks (3 disks) – After its review in CU Amiga shot to No 1 in sales chart. Excellent (+)

CREATIVE UTILITIES

CR001 Amigaventure & Advsys (+) make your own text adventure games with these progs (+)
CR002 Print Studio – Excellent for printing pictures or text (+)
CR003 Animation Studio – A brilliant anim creator for you to make your own animations (+)
CR004 Vertex Modelling – Allows you to create 3D-objects without using the X, Y & Z views. Loads Sculpt 3D/4D & Turbo Silver (+)
CR005 Modelling Objects – Contains over 20 vector objects in Image format. Perfect for use with CR004 (+)
CR006 Magnetic Pages V1.30 – Create your own disk magazine. Received 10/10 in review by Amiga Shopper mag (+)
CR007 Strata V1.0 – Landscape Generator which allows printing of them from any angle, any position & any magnification (+)
CR008 Amosbrot V1.1(A) – This update has even more Fractal types which include Logistic Equation, Coast Lines & Trees – Received good reviews (+)
CR009 Graphic Production – Utilities collection which contains scenery V1.0, Landscape, Landbuild V3.2, CLoud 9, Genesis Demo (+)
U241 FONTS/LOGOS – Masses for use with D-Paint (+)
U237 PROFESSIONAL DEMO MAKER – Create your own demo masterpieces
U299 SLIDESHOW MAKER – Shows how to present slideshows in different ways (+)
U084 SPEECH TOY – Get your Amiga talking (+)
U082 VOICES – Add speech to your demos etc. (+)
U312 MANDLEBROTS – The best Mandlebrot generator around (+)
U315 ULTIMATE ICONS – Includes Icon Lab, Icon Master & Icon Meister – splendid disk (+)
U321 SUPA FONTS – Masses of them for use with D-Paint etc (+)
U079 ELECTROCAD – Impressive package (+)
U078 MCAD – Great 3D Design Package (+)
U331 LAND BUILD 3.2 – Generate landscapes and view from any angle. Amazing! (+)
U346 ULTRAPAINT – Fab paint package (+)
U364 SCREEN MOD – Customise the way programs and screens appear (+)
U366 SHADOW DEMO MAKER – 3 Brilliant demo making utilities
U500 DEMO CREATOR PACK (6 DISKS) – Get the most out of your Amiga - Get creative.
U491 DKB TRACE – Excellent Ray Trace prog (+)

STRICTLY pd

DEPT AC, 11 YORK PLACE,
NR BRANDON HILL,
HOTWELLS, BRISTOL BS1 5UT

◆ **CHEQUES/P.O's payable to STRICTLY PD**

◆ **Buy 30 or more disks for just 75p each**
◆ Over 21 disks ONLY 85p EACH
◆ Only 99p per disk when you order 11 or more!
◆ Orders of 10 or less pay £1.25 per disk
◆ Please add £1 to all UK orders for first class postage. Orders from Europe please add 25p per disk and Rest of World add 50p per disk for extra postage costs
◆ Catalogue disk available only £1. Reviews of well over 1000 disks + loads more

◆ The complete Strictly P.D. library is now available in Australia. To order a catalogue please send cheque or postal order for $2.00 to Hargware, Dept AC, 29 Woralu St, Waramanga, ACT 2611, Australia.

LIGHT TABLE

The animation light table is one of *DeluxePaint IV*'s more professional touches.This excellent Light Table enables you to make a series of Anim frames transparent; which means that you can see earlier and later frames ghosted on the same screen as if you were working on clear celluloid; the traditional movie animator's final medium.

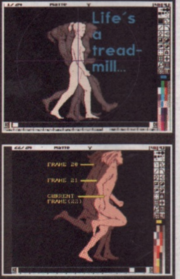
Once you have set up a series of animation frames, the best way to access the light table is through *DPaint IV*'s Anim control panel. The control panel is another innovation with this version and is accessed with an Alt/a joint keypress or directly from the Effects pull-down menu.

You activate the light table by clicking on the light bulb icon and it immediately ghosts the previous frame behind your currently displayed frame.

Clicking on the N icon shows the next frame in the sequence, so depending on how much information you can cope with on screen at once, you can have either or both selected.

While in the light table, all normal drawing tools are available, which makes it very easy to draw the in-between frames on a start-and-end animation. If you can see where an object was on a previous screen, you can then position it on the current screen with extreme care and precision .

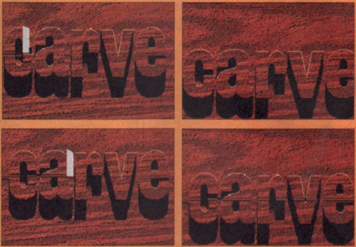
NOTE - Even though you have so much information on screen when using the Light Table, *DPaint* is always aware of which is your current screen. Try picking up a brush; no matter how many ghosts are on there and all you'll end up with is the image from your currently active screen.
Brilliant or what?

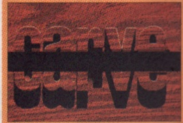


DPaint IV's Light Table gives you the kind of X-ray vision all animators long for. Traditionalists use clear cells or see-through tracing paper to check what they've already drawn. *DPaint* does this for you, and as you can see it paints on-screen the history of your animation. It also paints the future of the animation, if you want to see the up-coming frame. The Light Table can be invoked from the animation control panel at the bottom of the screen or by a pull-down menu option. (The figures I used for this example are from the 'Real Things Humans' set of *DPaint* Anim brushes – for more information ring RGB Studios on 0825 732 666.

CARVE UP

A very simple Anim brush brings this sequence to life. Using five frames, I drew a jigsaw in various lengths as it moved up and down. Picking this up as an Anim brush and Anim painting over a wooden background I gave the impression of a saw cut. I added the actual cut lines after the Anim painting, frame by frame, then I added a ten-frame sequence of the lower half of the image falling down to complete the illusion. So, it's true, one tiny Anim brush *does* make a difference to your work.

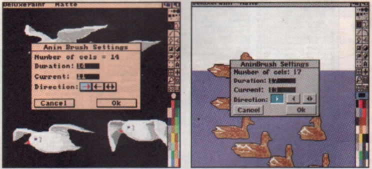




Here's an example of how one small Anim brush can bring a sequence to life. I drew a pad saw two inches high, then using the grid function for perfect positioning, I added a copy to each of five animation frames. I lowered the blade a grid step each time. With the grid still active, I cut the bottom of each saw blade off at the same place. When the animation is played in ping-pong mode (key 6), the saw appears to move down and up; just like the real thing.

With this five-frame sequence safely cut out as an Anim brush, I drew the wooden screen and added the lettering, creating a 20-frame animation. By activating the line requestor's N total and setting it to 20, I could now Anim paint my line across the background screen and watch the padsaw Anim brush animate its way across.

The final effect (of the lower half of the screen falling off) was a simple brush move carried out from the move requestor. I also added cut marks across the whole sequence by hand, for that bit of added realism.



Anim Brush Settings
Number of cels = 14
Duration: 14
Current: 11
Direction: → ← ↔

AnimBrush Settings
Number of cels: 17
Duration: 17
Current: [illegible]
Direction: ▸ ◂ ◂▸

Both *DPaint III* and *IV* give you the same degree of control over your Anim brush. You are able to play Anim brushes either backwards or forwards, or have them start from a particular frame number which gives you a real degree of control.

NEXT MONTH

In the next installment of Peter Lee's *DPaint* series he'll be rounding off the Anim brush theme. This will include a special feature for users of *DPaint IV* as Peter will show you how to get the most out of the stunning brush metamorph option and how painting modes and effects can be used to give exciting results to animations. For those owners of AGA machines who are still trying to get grips with the new *DPaint* this should help you get the most from this stunning paint package.

Eagle Software

10%
DISCOUNT ON
ORDERS OVER
£75 #
(EXCLUDES
POSTAGE AND
DISCS)

CREDIT CARD HOTLINE:
081 889 9172
ENQUIRY/ORDER LINE:
081 361 5730
24 HOUR FAX LINE
081 361 2733

118a Palmers Road
New Southgate
LONDON N11 1SL.

BITMAP BROTHERS VOL 1 only £16.99
Xenon, Cadaver and Speedball II

SPACE LEGENDS only £19.99
Amiga only
Megatraveller I, Elite, Wing Commander

BIG BOX only £15.99
Captain Blood, Tin Tin on the Moon,Safari Guns, Teenage Queen, Bubble Plus, Purple Saturn Days, Krypton Egg, Jumping Jackson, BoBo, Hostages

BOARD GENIUS only £17.99
Deluxe Monopoly, Deluxe Scrabble
Cluedo Master Detective and Risk

HOLLYWOOD COLLECTION only £16.99
RoboCop, Ghostbusters 2, Indiana Jones, Batman the Movie

TRIPLE PACK 1 (SPORTS) only £12.99
Microprose Soccer, Panza Kick Boxing, 3D Pool

THE GREATEST only £19.99
Jimmy White's Whirlwind Snooker, Lure of the Temptress, and Dune

STRATEGY MASTER only £21.99
Deuteros, Populous, Hunter,
Chessplayer 2150 and Spirits of Excaliber

DIZZY'S EXCELLENT ADVENTURES only £16.99
Dizzy Panic, Bubble Dizzy, Dizzy Prince of Yolk Folk, Spellbound Dizzy and Kwik Snax

SPORTS MASTERS only £19.99
PGA Tour Golf, Indy 500, Advantage Tennis, and European Championship 1992

DREAM TEAM only £16.99
Terminator II, Simpsons, W.W.F.

SOCCER MANIA only £11.99
Football Manager II, Gazza's Soccer, Football Manager - W.C. Edition, Microprose Soccer

TEST DRIVE II COLLECTION only £15.99
Muscle Cars, California Challenge
European Challenge, Duel, Super Cars

4 WHEEL DRIVE only £19.99
Lotus Esprit, Celica GT4 Rally, Team Suzuki, and Combo Racer

RAINBOW COLLECTION only £13.99
New Zealand Story, Bubble Bobble, Rainbow Islands

NINJA COLLECTION only £13.99
D. Dragon, Shadow Warrior, D. Ninja

AWARD WINNERS ONLY £16.99
Kick Off II, Pipemania, Space Ace and Populous

SUPER FIGHTER only £16.99
Pitfighter, W.W.F., Final Fight

NAPOLEONICS only £16.99
Waterloo, Borodino, Austerlitz

ANIMATION CLASSICS only £27.99
Space Ace
Dragon's Lair II
Wrath of the Demon

RAVING MAD only £12.99
Mega twins, Rodland, Robocod

COMBAT CLASSICS II only £20.99
F19 Stealth Fighter, Silent Service II and Pacific Islands

BIG BOX II only £19.99
Back to the Future III, R-Type, IK+, Real Ghostbusters, Def of the Earth, TV Sports Football, Shanghai, Amalyte, Sinbad, Bomboozal

POWER PACK only £14.99
Xenon 2, TV Sports Football, Bloodwych and Lombard Rally

COMBAT CLASSICS only £20.99
F15 Strike Eagle II, 688 Attack Sub and Team Yankee

TRIPLE PACK II (ACTION) only £12.99
Streetfighter, Rick Dangerous II, Last Crusade Action

2 HOT 2 HANDLE only £12.99
Golden Axe, Total Recall, Shadow Warrior, Super Off Road Racing

MEGA MIX only £12.99
Leander, Agony and Ork

SPORTS COLLECTION only £12.99
Run the Gauntlet, Pro Tennis Tour and World Cup Soccer (Italia '90)

ACTION 5 only £19.99
Rick Dangerous II, Ghostbusters II, Gunship, Super Ski and Hard Driving

TOP TITLES	AMIGA
1869	£19.99
A500+ 1Meg Upgrade	£39.99
A600 1Meg Upgrade + clock	£49.99
0.5 Meg Upgrade + clock	£25.99
3D Construction Kit II	£36.99
A320 Airbus	£23.99
A320 Airbus USA	£23.99
A-Train	£23.99
A-Train Con Set	£13.99
Addams Family	£7.99
Airbucks 1.2 (5/6/or 1200)	£19.99
Air Combat Patrol	£19.99
Air Force Commander	£19.99
Air Support	£11.99
Alfred Chicken	£16.99
Alien Breed 2	£17.99
Aliens III *	£16.99
A.Maclean's Pool	£16.99
American Gladiators	£15.99
Amos (Easy)	£23.99
Amos 3D	£23.99
Amos Compiler	£19.99
Amos Professional	£54.99
Amos Professional Compiler	£23.99
Amos The Creator	£36.99
Apocalypse*	£19.99
Arabian Nights 500/1200	£19.99
Armourgeddon	£15.99
Armourgeddon II *	£19.99
Assassin	£16.99
A.T.A.C. *	£23.99
B17 Flying Fortress	£23.99
Bane of the Cosmic Forge	£24.99
BARBARIAN II (Psyg)	£10.99
Bart vs the World *	£16.99
Batman Returns *	£16.99
Battle Chess II	£16.99
Battle Isle '93	£20.99
Battle Toads	£16.99
Beavers	£16.99
Beneath the Steel Sky	£19.99
Birds of Prey	£9.99
Black Crypt	£16.99
Blade of Destiny	£30.99
Blastar	£16.99
Blob	£16.99
Blue Max	£11.99
Body Blows	£16.99
Brutal Sports Football *	£16.99
Bubba 'N'Stix	£16.99
Buck Rogers	£19.99
Buck Rogers II *	£20.99
Bully's Sporting Darts	£7.99
Burning Rubber	£16.99
Burn Up	£16.99
Cadaver - the pay off	£10.99
Caesar	£16.99
Caesar deluxe	£19.99
Campaign	£22.99
Campaign Mission Disk	£10.99
Campaign II *	£23.99
Captive	£11.99
Captive II	£17.99
Car and Driver *	£23.99
Carl Lewis Challenge	£12.99
Castles	£16.99
Castles Data Disc	£11.99
Castle of Dr Brain	£15.99
Chaos Engine	£16.99
Championship Manager '93	£16.99
Chase HQ II	£8.99
Chuck Rock II	£10.99
Civilisation	£23.99
Civilisation A1200	£27.99
C.Y's Air Combat	£20.99
Cohort II	£19.99

TOP TITLES	AMIGA
Combat Air Patrol	£18.99
Cover Girl Poker	£12.99
Crazy Cars III	£9.99
Crystal Kingdom Dizzy	£13.99
Cyberspace *	£23.99
Dalek Attack	£12.99
Darkmere	£16.99
Das Boot	£11.99
D-Day	£16.99
Deluxe Music Con Set	£74.99
Deep Core *	£16.99
Desert Strike	£19.99
Desert Strike II *(Jungle Str)	£20.99
D/Generation	£11.99
Diggers (CD) *	£23.99
Disney Animation Studio	£74.99
Dogfight	£23.99
Dreadnoughts	£22.99
Dream Web *	£27.99
Dune	£19.99
Dune II	£19.99
Dungeon / Chaos	£19.99
Elvira II - Cerberus	£23.99
Epic	£19.99
European Champions	£16.99
Eye of the Beholder	£19.99
Eye of the Beholder II	£23.99
F15 Strike Eagle II	£12.99
F117A Stealth Fighter	£23.99
F19 Stealth Fighter	£12.99
F29 Retaliator	£7.99
Falcon	£11.99
Falcon Mission Disk I	£8.99
Falcon Mission Disk II	£8.99
Fate of Atlantis (Adv)	£25.99
Fate of Atlantis (Arc)	£16.99
Final Fight	£7.99
Fire and Ice	£15.99
FireStone HD Scenery	£13.99
Flashback	£20.99
Football Manager III *	£15.99
Free DC	£16.99
Global Effect	£16.99
Global Gladiators	£19.99
Goal/Kick Off III	£19.99
Gobliins II	£19.99
Gods	£14.99
G. Gooch Cricket	£19.99
Graham Taylor	£15.99
Grand Prix (Formula)	£23.99
Gunship 2000	£23.99
Harlequin	£14.99
Harpoon (1 Meg)	£19.99
Harrier Assault AV8B	£23.99
Hero's Quest II	£16.99
Hill Street Blues	£7.99
Hired Guns	£23.99
Historyline 1914-18	£21.99
Hook	£10.99
International Open Golf	£16.99
International Sports Chall.	£15.99
Ishar II 500/1200	£19.99
Jaguar XJ220	£16.99
James Pond III (Op Starfish)	£16.99
J. White's Whirlwind	£16.99
J. Barnes (1 Meg)	£15.99
J. Madden's Football	£16.99
Jurassic Park *	£18.99
KGB	£16.99
Kick Off II (1 Meg)	£15.99
Kick Off II (.5 Meg)	£14.99
Killing Game Show	£11.99
Kingdom of Germany *	£19.99
Kingmaker	£19.99
Kings Quest VI * (A1200)	£37.99
Knight Mare	£11.99

TOP TITLES	AMIGA
Knights of the Sky	£12.99
Lambourghini USA Challenge	£16.99
Lawn Mower Man *	£16.99
Leander	£10.99
Leeds Utd	£16.99
Legacy *	£23.99
Legend	£11.99
Legend II (Worlds of Legend)	£16.99
Legend of Kyrandia	£19.99
Lemmings	£15.99
Lemmings and Data Disk	£19.99
Lemmings II	£19.99
Lemmings - Data Disk	£10.99
Lemmings - Stand Alone	£15.99
Little Divil	£16.99
Links	£12.99
Liquid Kids *	£16.99
Loom	£10.99
Lost Vikings	£16.99
Lost Treasures of Infocom	£23.99
Lotus Turbo Challenge II	£8.99
Lotus Turbo Challenge III	£16.99
M1 Tank Platoon	£11.99
MacDonald Land	£9.99
Maelstrom (1 meg)	£23.99
Magic Boy *	£16.99
Magic Pockets	£15.99
Man Utd. Europe	£7.99
Man Utd Premier *	£19.99
Mario is Missing	£16.99
Microprose Golf	£16.99
Midwinter II	£12.99
Mig 29 Fulcrum	£9.99
Might of Magic III	£23.99
Moonstone	£10.99
Monkey Island	£15.99
Monkey Island II	£25.99
Mouse (Switchable)	£9.99
Morph	£15.99
Myth	£8.99
Nick Faldo Golf	£23.99
Nicky Boom II	£16.99
N. Mansell World Champ	£20.99
Noddys Big Adventyure	£16.99
One Step Beyond	£13.99
Outlanders *	£16.99
Overdrive	£17.99
Pacific Islands - T.Yankee II	£20.99
Pacific Islands II *	£21.99
Parasol Stars	£15.99
Patrician	£17.99
PGA Golf Tour +	£20.99
PGA Courses Disk	£10.99
Pinball Dreams	£15.99
Pinball Dreams II	£16.99
Populous II - The Challenge	£11.99
Populous II + (1 Meg)	£23.99
Power and Glory	£19.99
Power Up Compilation	£12.99
Premier Manager	£16.99
Push Over	£8.99
Putty	£12.99
Railroad Tycoon	£23.99
Reach for the Skies	£19.99
Red Baron	£15.99
Road Rash	£16.99
Robin Hood (Millenium)	£9.99
Robocod	£15.99
Robocod A1200	£16.99
Robocop III	£8.99
Robo Sports	£16.99
Rookies *	£17.99
Ryder Cup	£16.99
Sabre Team	£16.99
Sabre Team 1200	£19.99
Scrabble (US Gold)	£18.99

TOP TITLES	AMIGA
Secret Silver Blades	£16.99
Sensible Soccer 92-93	£16.99
Shadowlands	£8.99
SHADOW BEAST II	£11.99
Shadow of the Beast III	£11.99
Shadow Worlds	£16.99
Silent Service II	£23.99
Sim Ant	£22.99
Sim Earth	£16.99
Sim Life A1200/500	£19.99
Simpsons	£8.99
Sleepwalker 500/1200	£14.99
Snow Bros	£16.99
Soccer Kid 500/1200	£19.99
Soup Trek *	£16.99
Space 1889	£16.99
Space Gun	£12.99
Space Hulk *	£23.99
Space Crusade + Upgrade	£16.99
Space Quest IV	£23.99
Special Forces	£23.99
Starflight II	£10.99
Star Trek 25th Anniversary *	£19.99
Steel Empire	£20.99
Stereo Master	£26.99
Street Fighter II	£17.99
Striker	£16.99
Super Cauldron	£16.99
Superfrog	£16.99
Super Mario Brothers	£18.99
Super Space Invaders	£7.99
Super SWIV *	£16.99
Syndicate	£23.99
Syndicate Data Disc *	£14.99
Test Drive III *	£15.99
TFX *A1200	£23.99
Theatre of Death *	£18.99

TOP TITLES	AMIGA
The Games '92 Espana	£20.99
Their Finest Hour	£19.99
ThunderhawkAH-73M	£21.99
Tip Off	£16.99
Toki	£7.99
Toon World *	£16.99
Tornado *	£23.99
Total Carnage	£16.99
Troddlers	£16.99
Trolls 500/1200	£16.99
TV Sports Baseball	£11.99
TV Sports Boxing	£11.99
Turtles II	£11.99
Twilight 2000	£23.99
Ultima V	£19.99
Ultima VI	£12.99
Universal Masters	£16.99
Uridium II *	£17.99
Utopia	£16.99
Utopia New World	£11.99
Utopia II *	£17.99
Video Kid	£15.99
Viking Fields of Conquest	£15.99
Voyage Beyond Data Disc	£9.99
Walker	£18.99
War in the Gulf	£19.99
Waxworks	£21.99
Whales Voyage	£19.99
White Death (1 Meg)	£12.99
Wing Commander	**£12.99**
Wiz Kid	£15.99
Woody's World	£16.99
W.W.F.	£7.99
W.W.F. II	£8.99
Yo! Joe!	£16.99
Zool 500/1200	£16.99

EDUCATIONAL

ADI English 11-12	£16.99
ADI English 12-13	£16.99
ADI English 13-14	£16.99
ADI French11-12	£16.99
ADI French 12-13	£16.99
ADI French 13-14	£16.99
ADI Maths11-12	£16.99
ADI Maths 12-13	£16.99
ADI Maths 13-14	£16.99
Better Spelling 8-14	£14.99
Better Maths 12-16	£14.99
Fun School 2 under 6	£6.99
Fun School 2 6-8	£6.99
Fun School 2 over 8	£6.99
Fun School 3 under 5	£13.99
Fun School 3 5-7	£13.99
Fun School 3 7+	£13.99
Fun School 4 under 5	£16.99
Fun School 4 5-7	£16.99
Fun School 4 7+	£16.99
Junior Typist	£11.99
Magic Maths (4-8)	£14.99
Maths Mania	£14.99
Noddy's Playtime	£16.99
The Three Bears	£14.99

3.5 DS DD discs

with Labels boxed in 10's

10 x 3.5	DS	DD	£5.99
20 x 3.5	DS	DD	£11.99
30 x 3.5	DS	DD	£15.99
50 x 3.5	DS	DD	£21.99
100 x 3.5	DS	DD	£39.99

Please add 50p per 10 discs when ordering to cover P & P

AMIGA BUDGET TITLES UNDER £10

688 Attack Sub	£9.99
3D Pool	£6.99
Afterburner	£6.99
Altered Beast	£6.99
Arkanoid II	£6.99
ATOMINO	£8.99
Barbarian	£5.99
Barbarian II	£6.99
Batman The Movie	£6.99
Battlehawks 1942	£9.99
Blood Money	£6.99
Blues Brothers	£9.99
Cabal	£6.99
California Games	£6.99
Carrier Command	£6.99
Celica GT4 Rally	£6.99
Centrefold Squares	£6.99
Chase HQ	£6.99
Cloud Kingdom	£6.99
Colossus Chess	£6.99
Combo Racer	£6.99
Conflict in Europe	£7.99
Continental Circus	£5.99
Deluxe Strip Poker	£6.99
Double Dragon I or II	£6.99
Dragon Ninja	£6.99
Duel	£6.99
Face Off - Ice Hockey	£7.99
Fantasy World Dizzy	£5.99
F16 Combat Pilot	£7.99
Flight of the Intruder	£8.99
F.O.F.T.	£6.99
Future Wars	£8.99
Gauntlet II	£6.99
Gem X	£6.99
Ghostbusters II	£6.99
Ghouls'n'Ghosts	£6.99
Hardball	£6.99
Head over Heels	£6.99
Hudson Hawk	£6.99
IK+	£6.99
Indy Last Crusade Graphic	£9.99
James Pond	£6.99
Jet Set Willy	£7.99
J.Khan Squash	£6.99
Last Ninja II	£6.99
Last Ninja III	£7.99
Lombard RAC Rally	£6.99
Lotus Esprit	£6.99
Maniac Mansions	£8.99
Manic Miner	£7.99
M. Jackson Moonwalker	£6.99
Midwinter	£9.99
Moonshine Racers	£6.99
Murder	£7.99
Narc	£6.99
New Zealand Story	£6.99
Ninja Remix	£7.99
North & South	£6.99
Out Run	£6.99
Operation Harrier	£7.99
Operation Stealth	£9.99
Operation Thunderbolt	£6.99
Operation Wolf	£6.99
Outrun Europa	£7.99
Pang	£6.99
Panza Kick boxing	£8.99
Pinball Magic	£7.99
Pirates	£8.99
Pitfighter	£6.99
Platoon	£5.99
Predator	£6.99
Prince of Persia	£6.99
Project X	£9.99
Pro Tennis Tour	£6.99
Puzznic	£6.99
Rainbow Islands	£6.99
Rambo III	£6.99
RBI2 Baseball	£6.99
Resolution 101	£6.99
Rick Dangerous II	£7.99
Robocop	£6.99
Robocop II	£6.99
R-Type	£6.99
Run The Gauntlet	£6.99
R.V.F. Honda	£6.99
Shadow of the Beast	£6.99
Shadow Warrior	£6.99
Sherman M4	£6.99
Shinobi	£6.99
Smash TV	£6.99
Starglider II	£6.99
Strike Fleet	£9.99
Stunt Car Racer	£6.99
Supaplex	£5.99
Super Cars II	£8.99
Super Hang On	£6.99
SwitchBlade	£6.99
Switch Blade II	£8.99
Swiv	£6.99
Tennis Cup 2	£7.99
Terminator II	£6.99
Titus the Fox	£9.99
Toobin'	£6.99
Turrican II	£7.99
Untouchables	£6.99
Vigilante	£6.99
WC Leaderboard	£6.99
World Championship Boxing	£6.99
Zak McKracken	£8.99

VISIT OUR SHOP
AT
120a
MYDDLETON
ROAD
WOOD GREEN
LONDON
N22 4NQ.
081
889 9172
SHOP PRICES
MAY VARY.

Please make cheques and P.O.'s payable to *Eagle Software*. P&P is £1.00 per item in the UK. Europe: add £3.50 per item. Elsewhere add £5.50 per item. New titles will be sent as released and are subject to manufacturers price reviews. E.&O.E. PLEASE SEND ME MY FREE COPY OF 'THE REVIEW BOOKLET'. ☐ # Please quote special offer when ordering for it to apply.

Computer ________ AMIGA ________
Title ________
____
____
____

Date ________
Price ________
Price ________
Price ________
Price ________
P & P ________
Total ________

*Not released at time of going to press

Name: ________
Address: ________
____
____
Postcode: ________ Tel: ________
Card No: ________
Exp Date ________ Account No: ________
Access ☐ Visa ☐ Cheque ☐ P.O's ☐

Please Quote Account Number when Re-Ordering.

FIVE-STAR

99p
per disk

QUALITY SOFTWARE: WE STOCK OVER 3000+ DISKS

WE ALSO STOCK

FRED FISH	1-860
T-BAGS	1-57
L.S.D. DOCS	1-39
SCOPES	1-220
GLAMOURS ETC	

GAMES

G001-17 + GAMES (1-17)
G018 +FAMILY FUN 1 (A)
G019 +WET BEAVER GAMES
G077 +JEOPARDS (A)
G079 +PACMAN 87 (A)
G081 +STAR-TREK NG
G084 +YELP (A)
G085 +ROGUE TROOPER
G088 +TRIKY TURN (A)
G091 +VIKING CHILDS
G092 +THE SIMPSONS (A)
G094 +RETURN TO THE EARTH (A)
G096 +POPEYE (A)
G097 +PLOTTING (A)
G0102 +PIPELINES (A)
G106 DRAGONTILES (A)
G109 +BUG BLASTER (A0
G110 +MYSTERIOUS WORLD
G112 +CUNCULS (A)
G127 +DEFENDA (A)
G138 +PETER QUEST (A)
G153 +SEALANCE (A)
G158 +WASTELAND (A)
G166 +NOMANSLAND (A)
G172 +DUNGEONS DURIAN
G174 +POWER GAMES 1
G175 +REVENGE CAMEL (A)
G215 +SCRUM HATERS (A)
G222 +MEGA 21 GAMES (A)
G223 +SUVIVER (A)
G224 +ADDAMS FAMILY (A)
G235 +DRAGON CAVE (A)
G236 +SPACE POKER (A)
G240 +QUADRIX (A)
G242 +TAKE EM OUT (A)
G245 +CHROME (A)
G252 +SUPER PAC 92 (A)
G256 +INSIDER CLUB (A)
G259 +CRYSTAL CAVERNS (A)
G260 +PROPERTY MARKET
G265 +SUB CULTURE (A)
G266 +TRUCKING (2)
G269 +MENTAL IMAGES 1 (A)
G270 +MENTAL IMAGES 2
G272 +TANK BATTLE (A)
G274 +MR DUG (A)
G275 +FRUIT MACHINES (A)
G278 +ARCADIA (A)
G293 +GAME GALORE (1-13) (A)
G302 +BOUNTY HUNTER
G303 +DIMENSION X
G305 +SQUATS REVENGE (A)
G326 +MEGA GAME COL III (A)
G329 +MADDONNA NUDE PUZ (A)
G331 +GRAVITY (A)
G333 +CYBERNETIC (A)
G334 +DONKEY KONG
G335 +CRAZY SUE II (A)
G339 +DOCTOR MARIO
G342 +S.SCODA CHALLENGE (A)
G344 +STAR TREK (A)
G350 +RAID III (A)
G351 +CAVE RUNNER (A)
G356 +WONDERLAND (A)
G361 +CHINA CHALLENGE II (A)
G362 +DELUXE PACMAN (A)
G366 +BINGO CALLER (A)
G367 +CARD GAMES(A)
G372 +GAMEBOT TETRIS
G373 +AIR ACE 2(A)
G374 +SUPER TWIN RITZ(A)
G380 +SHOOT EM UP(A)
G385 +BILLY THE DRAGON(A)
G389 +CASINO GAMES(A)
G390 +TETREN(A)
G392 STRIKE BALL(A)
G393 +BUBBLE SPACE GHOST(A)
G400 +FIGHTING WARRIOR(A)
G401 +IFF 2 PCS(A)
G403 +CASTLE NOMIS(A)
G406 +TOTAL WARS(A)
G410 +FATAL MISSION(A)
G411+BATTLECAR II(A)
G417 +22 PUZZLE GAMES(A)
G422 +SERENE II(A)1
G435 +ROULETTE(A)
G436 +AIRPORT A
G436 +JUMPY
G438 +TRAILBLAZER(A(
G443 +OLEMPIAD DISC(2)(A)
G446 +OBLIDOX(A)
G449 +EMPIRE(2)
G453 +FIREFIGHTER(A)
G455 +CASTLE OF DOOM(A)
G458 +TECNOTRON(A)
G460 +WIBBLEWORLD GIDDY(A)
G465 +CHESS2 (A)
G474 +TOP OF THE LEAGUE(A)
G478 +AMOS(A)
G484 +MATCHSTICKMAN(A)

UTILITIES

U001 +A-GENE(A)
U002 +SYSTEM TESTER(A)
U007+TEXT 2.2e(A)
U016 +HOME BUSINESS 2(6)(A)
U023 +BANKING(A)
U029 +CANDO(1MB)(A)
U031 +C-LIGHT(1MB)(A)
U033 +CROSS DOS(A)
U046 +DARKSTAR(2-5)(A)
U058 +MAG CREATOR(A)
U059 +DISC SALVAGE(A)
U088 +LABEL DESIGNER(A)
U101 +DATABASE/CAT(2)(A)
U118 +NORTH C(2)(A)
U121 +SPREADSHEET(A)
U131 +TETRA COPY(A)
U137 +UEDIT(A)
U140 +VI9RUS KILLER(A)
U144 +AMIGAFOX (A)
U145 +X-COPY(A)
U146 +C-MANUAL(4)(A)
U150 +WORKBENCH HACKS(A)
U153 +ASSA SIGN PRINTER(A)
U160 +600 BUSINESS LET(A)
U169 +PAINT AND ANIMATE(A)
U170 +BIORHYTHMS V4.01(A)
U177 +ELECTRO-CAD V1.4 (A)
U181 +VIDEO NOTE PAD (A)
U186 +ULT DISK CREATOR (A)
U191 +SID 2 (A)
U195 +AMIBASE-PRO 2 (A)
U198 +SCRENERY (A)
U220 +AMOS PAINT (A)
U226 +50 + MOST USE UTIL (A)
U229 +SLIDE CONST KIT (A)
U231 +THE GAME TAMER (A)
U233 +SPEECH TOY (A)
U237 +8 CHANNEL S/TRACKER (A)
U242 +IMPLODER 4.0 (A)
U250 +VIDEO TOOL (3) (A)
U255 +GRAPHIC CONVERTOR (A)
U261 +JAM DISK 1-10 (A)
U284 +COPY AND CRACK TOOL (A)
U287 +P C Q PASCAL (2) (A)
U300 +MESSY SID 2 (A)
U311 +POWER LOGO (A)
U313 +PRINTER UTILITY
U321 +GRAPHIC UTIL (6) (A)
U331 +POWER MENUES (A)
U332 +GRAPHIC CONST KIT (A)
U334 +EMULATOR COL 2 (A)
U335 +FREE COPY (A)
U337 +MODEL 3D (A)
U338 +MULTI VISIONS 1 (A)
U339 +MULTI VISIONS 2 (A)
U343 +LITTLE OFFICE (A)
U350 +POOL TOOL (A)
U352 +DESK TOP VIDEO (A)
U356 +TEXT ENGINE 3.4 (A)
U357 +BON APATITE (A)
U358 +STAR CAT 2 (A)
U363 +DISK REPAIR KIT (A)
U364 +HOME ACCOUNT (A)
U368 +AMICASH (A)
U370 +CAPTION MACHINE (A)
U372 +WORD SORT (A)
U376 +NCOMM 2 (A)
U377 +NCOMM 3 (A)
U383 +LYAPVNOU GENATOR (A)
U390 +DATA BASE PACK (A)
U391 +FORTRAN LANG (A)
U394 +PROTRACKER Vs z (A)
U397 +FORM UNLIMITED (A)
U398 +MORTGAGE CALC (A)
U399 +FRAC ESCAPE V1.2 (A)
U401 +1ISSUE (1-14) (A)
U420 +SPEED BENCH (2-3) (A)
U424 +SLIDE MAKER (WB2/3) (A)
U425 +NIB 2 (A)
U427 +PRINTER STUDIO (A)
U430 +SOUND MONITOR (A)
U431 +VIDEO APPLICATION (2) (A)
U434 +ORICAL (2) (A)
U442 +SYS INFO 2.58 (A)
U444 +FONT FARM (A)
U466 +GRAPE VINE 12 (3)(A)
U477 +QUATORMASS EXP (2)(A)
U480 +HARD DISK CLICK (A)
U491 +PRO TRACKER V3 (A)
U495 +HARD DISK UTIL (A)
U505 +SALVAGE/REPAIR KIT (A)
U507 +D COPY 3 PROFF (A)
U509 +ULTIMATE BTBLOCK 1 (A)
U513 +VIDEO-TITLER A (2) (A)
U516 +AMOS FRATUAL (A)
U550 +SCENERY CONST KIT (A)
U551 +ASSASIN BOOT BLOCK (A)
U555 +CROSSWORD CREATOR
U558 +GRAPHIC CONST KIT
U567 +TEXT PLUS V4 (A) 0
U568 +ICON CONST KIT (2) (A)
U580 +PICTURE BOX (A)
U581 +MAGNETIC PAGES (A)
U584 +NEW SUPER KILLER (A)

ANIMATIONS

A001 WALKER 1&2 (2) (A)
A002 +SYSTEM TESTER (A)
A007 +TEXT PLUS 2.2E (A)
A008 +TRON (2) (AG)
A010 +SCULPT ANIM 1 (A)
A013 SPACE PROBE(A)
A017 +S.T.FLEET (A)
A019 +STAMP LOGO ANIM 1 (A)
A021 +COYOTES STRIKES BACK
A022 +LUXO TEENAGERS (A)
A025 +COOL COUGAR (A)
A028 +PUGGS IN SPACE(A)
A029 +MIKE TYSON(A)
A033 +FRACTAL FLIGHT(A)
A036 +WEIRD SCIENCE 1 (A)
A037 +WEIRD SCIENCE 2 (A)
A038 +BATMAN MOVIES(A)
A039 +NEWTEK (2)(A)
A051 +DATING GAMES (3MB) (2)
A056 +JUGGETTE II (1MB)(A)
A059 +POGO(1MB)(A)
A060 +WALKER 1(2MB)(2)(A)
A063 +JUGGLER II (A)
A064 +NEWTEKIII(2)(A)
A066 +DBW RENDER (A)
A068 +WALKER 2(2)(2MB)(A)
A070 +DONALD DUCK
A072+ LIFES A BITCH (1B)(A)
A073 +ITS MENTAL III(A)
A082 +ITS MENTAL 1 (A)
A108 +ANOTHER WORLD(A)
A115 +VIETNAM CONFLICT(A)
A138 +KYLIES A (2D) (A)
A141 +TERMINATOR 2 (A)
A150 +MADDONNA (A)
A151 +TOP GUN (A)
A153 +GOLF TRIBUTE (A)
A154 +THUNDERBIRDS (A)
A155 +ROCK ALBUM (A)
A157 +WATERSHIP DOWN (A)
A158 +GARFIELD (A)
A173 +HELLRAISER II (A)
A175 +MADDONNA SS2 (AGA)
A178 +KIM WILDE SLIDES (A)
A179 +THE LIVING WORLD (A)
A187 +PERIL OF THE DEEP 1 (A)
A188 +PERIL OF THE DEEP 2 (A)
A190 +TERMINATOR 2 (2) (A)
A193 +NEMISIS COMIC (A)
A195 +REAL 3D (2) (A)
A197 +STAR TREK (2) (A)
A200 +MARS FLIGHTS (A)
A202 +FRACTAL ANIM (A)
A205 +PLANET SLIDE (A)
A207 +NEW LEMMINGS (A)
A208 +LADY AND THE TRAMP (A)
A209 +MR POTATOS (A)
A211 +COPTER FLIGHT (A)
A213 +CANNON FLIGHT (A)
A215 +MADDONNA 3 (A)
A218 +MORE AREOTOON (A)
A220 +SHOW BIZ ANIM (A)
A221 +JAMES WHALES ANIM (A)
A225 +FIVE WAY KILL MOLE 2 (A)
A226 +NEW VIZ (A)
A230 +TOO MUCH 3D (A)
A231 +ALIENS (A)
A232 +BEACH FIGHT 1&2 (A)
A236 +WHIZZER AND CHIPS (A)
A241 +SUPER PIC (1-3) (A)
A250 +CHANNEL 42 (A)
A252 +SPACE FLIGHT ANIM (A)
A255 +BART SIMPSON (3) (A)
A258 +CREEP SHOW (A)
A260 +FREDDY DEAD (A)
A262 +STAR TREK (A)
A265 +LET ME OUT 1&2 (A)
A266 +COLOUR CYCLE (A)
A280 +GIF 1&2 (2)(A)
A288 +SATURN FLYBY (A)
A289 +REFLECTION (A)
A290 +CHRISTMAS ANIM (A)
A293 +MANGA COMIC (2) (A)
A296 +SICK LICK ART (AGA)
A299 +ERIC SWARTZ (A)
A300 +VISTA PRO (2) (A)
A302 +CAT SLIDE SHOW (A)
A306 +TORNADO (AGA)
A311 +COLOUR DEMO (A)
A314 +SCENERY ANIM (2A) (A)
A317 ROCKIN ROBOT (A)
A320 +GORE (AGA)
A334 +DOLPHIN DREAM (2)
A372 +ROADENS ANIM (2) (A)
A375 +MOONSHINE (2MG) (A)
A376 +SIX OF ONE PRISONER (A)
A377 +EIGHT SLENZ OUT (2M)(A)
A378 +SWEET REVENGE (2M) (A)
A379 +PREDATOR (A)
A383 +ADVENTURE OSCAR (A)

STAR TREK ANIM

AGATRON VOL 1-38

DEMOS

D001 +SPACE ACE (A)
D008 +PREDATOR (A)
D011 +MULTI TASKING (A)
D013 +FRAXION REVENGE (A)
D016 +DEAD DANCE THRASH (A)
D029 +BUD BRAIN MEGA (2)
D033 +PHENOMENA (A)
D035 +THAMES TV (A)
D050 +PINK FLOYD (6) (A)
D062 +PREDATORS (2)
D062 +SAM FOX BIG BOBS
D076 +CONTACT BEEN MADE (A)
D078 +SYSTEM VIOLATION (A)
D120 +1911 VOYAGE
D152 +THE ELECTRIC TOUCH
D154 +VIRTUAL REAL (2)
D156 +KYLIES DEMO (2)
D163 +HARLEQUIN DEMO (A)
D168 +SILENCE OF THE LAMB (A)
D180 +CHEAP MOVIES CLIP (A)
D188 +PIECE OF MIND (A)
D190 +SOFTWARE FALIURE (A)
D201 +FARTS DEMO (A)
D203 +HIDDEN DEMO (A)
D205 +CDA LIMLIGHT (A)
D218 +SCREAM (2)
D225 +DELUXE VIDEO 3 (2)
D234 +SILENCE EXPOSE (2)
D236 +DELUXE PHOTO LAB (2)
D240 +ANARCHY

18+ DEMOS

DD01 +SHOWERING GIRLS (A)
DD03 +BODY TALK (2) (A)
DD06 +VIZ CALANDER 1990 (A)
DD07 +NIGHT BREED (A)
DD09 +MARIA WHITTAKER (A)
DD24 +SABRINA SPECIAL (A)
DD25 +DIE FILKINGER (A)
DD26 +MADDONNA EARLY DAYS
DD28 +KATHY LLOYD"
DD30 +MEGA MAID" (A)
DD31 +CALANDER GIRLS (A)
DD32 +MAYFAIR (A)
DD33 +EUTOPIA (4)
DD45 +GIRLS OF SPORT (A)
DD49 +PAGE 3 GIRL (A)
DD70 +GON GON GIRLS (A)
DD71 +TINA SMALL (A)

MUSICS

M001 +BEASTIE BOYS (A)
M002 +MICHEAL JACKSON (A)
M003 +DO THE BART MAN (A)
M005 +100 C64 TUNES
M018 +THE XMAS SONG (A)
M020 +LAURAL & HARDY (2) (A)
M025 +MONEY FOR NOTHING (A)
M026 +WALK THIS WAY REMIX (A)
M026 +SAFE SEX DEMO (A)
M031 +BETTY BOO (A)
M035 +ARSE WIPE (A)
M040 +SECRET PM'S BALL (2) (A)
M058 +SERGANT PEPPER DISK 2 (A)
M062 +THE RAINBOW DEMO (A)
M063 +CHUBBY BROWN (A)
M072 +MADDONA(A)
M084 +C64 GOMES MUISIC(A)
M093 +MILLER LITE(A)
M107 +FLASH GORDON (2)(A)
M115 +MAHONEY AND KAKTUS 2(A)
M122 +THE YELLOW MIX(A)
M123 +HOME AND AWAY+BREAD(A)
M125 +ADDAMS FAMILY(A)
M131 +AMIGA CHART 3(A)
M135 +KEJRIENS MEGAMIX (A)
M147 +BANGLE(A)
M150 +TIFFANY(A)
M153 +XMAS MUSIC COL(A)
M154 +KYLIES(2)(A)
M156 +CD PLAYER(A)
M158 +DOCTOR IN TARDIS(A)
M160 +I AM TOO SEXY(A)
M166 +OOH IT OBSCENE 2 (A)
M167 +OOH IT OBSCENE 3(A)
M168 +ROCKS AND ROLL(A)
M171 +MADONNA (VIRGIN)(A)
M177 +PET SHOP BOY FOURTUNE(A)
M184 +SAM FOX (PLEASE ME)(A)
M186 +MADONNA (RESCUE)(A)
M188 +JOE LE TAXI(A)
M194 +JESUS JONES 2(A)
M230 +NOW MUSIC 1-15
M262 +A-Z C64TUNES(4)(A)
M274 +LSD TECNO WARRIOR (A)
M276 +VIVALOT 4 SEASON (A)
M293 +BACHS CONCERTO 5/6(A)
M314 +DICK TRACEY (2)(A)
M318 +MADDONNA (IMMACULATE)(A)

EDUCATIONS

E001 +KIDS PAINT (A)
E002 +COLOUR IT(A)
E003 +TREASURE SEARCH(A)
E004 +LEARN AND PLAY 1
E005 +LEARN AND PLAY 2
E006 +SPAINISH TRANSLATOR(A)
E007 +EDUCATION GRAPHICS
E008 +MR MEN
E009 +ASTRONOMY (A)
E010 +SIMON AND SPACE MATH(A)
E011 +EDUCATION DISK 1 (A)
E011 +EDUCATION DISK 2 (A)
E011 +EDUCATION DISK 3 (A)
E011 +EDUCATION DISK 4 (A)
E011 +EDUCATION DISK 5 (A)
E011 +EDUCATION DISK 6
E019 +DINOSAURS(A)
E020 +WORLD DATABASE (A)
E021 +STORYLAND 2(A)
[illegible] +LANGUAGE TUTOR(A)
[illegible] +TALKING COLOURING(A)
[illegible] +EASY SPELL2 (A)
[illegible] +SCRABBLE(A)
[illegible] +WORDS(A)
[illegible] +OSWALD(A)
[illegible] +ARIOCHS ASTROLOGY(A)
[illegible] +ARIOCHS ASTROLOGY(A)
[illegible] +EVOLUTION(A)
[illegible] +IQ TEST+IQ GAMES(A)
[illegible] +KEYCLICK 2
[illegible] +CHESS HELPER(A)
[illegible] +BASIC TUTOR(A)
[illegible] +AMIGA TUTORIAL(A)
[illegible] +POSTMAN PAT(A)
E40 +GUIDE TO BACK PAIN(A)
E41 +KID ALPHABET(A)
E42 +FRACTION AND SILQUEST(A)
E43 +MATH MASTER(A)
E44 +STEAM ENGINE V2(A)
E45 +PETROLENGINE(A)
E46 +GAS TURBINE ENGINE (A)
[illegible] +DREAM FOR ANGELS(A)
[illegible] +INVISIBLE WORLD(A)
[illegible] +FISHTANK SIM
[illegible] +DEMOLIT MISSION(A)
[illegible] +WORD POWER(A)
[illegible] +WORM HOLE (A)
[illegible] +APPLECATCHER (A)
[illegible] +MAZE AND CRYPOICK(A)
[illegible] +VERB QUIZ (A)
[illegible] +KING JAMES BIBLE A (A)
[illegible] +TAROT A(A)
[illegible] +TAROT DISC(A)B
[illegible] +GALLOW (A)
[illegible] +TREASURE TRAP
[illegible] +MATCH DRILLS(A)
[illegible] +ERROR INFO (A)
[illegible] +PICTURE AND LETTER(A)
E74 +AMIGA BEGIN GUIDE(A)
E75 +WORLD WAR 2(A)

CLIPARTS

CA01 +COLOUR CARTOON
[illegible] +PS CLIPART 1-5
[illegible] +HARLEQUIN VOL 1
[illegible] +VOLUME 2
[illegible] +HARLEQUIN VIDEO 1
[illegible] +FONTS & SURFACE
[illegible] +DYAMITE FONTS 2
[illegible] +AMSOFT FONT CLIP
[illegible] +AMSOFT FONT CLIP 2
[illegible] +VARIOUS FONT
[illegible] +EXILE FILE FONT CLIPART
[illegible] +DISNEY CLIPART
[illegible] +COMIC CLIPART
[illegible] +SPACE CLIPART
[illegible] +GELENITE FONTS (3)
[illegible] +RIPFONT & LOGO
C044 +COLOUR CLIPART 1
C051 +CLI-PART VOL 1-20
C101 +IFF PIC CLIPART 1-24

FONTS

F001 +FS FONT 1-5
F015 +DELUXE PAINT 1
F016 +DELUXE PAINT 2
F017 +DELUXE PAINT 3
F018 +DELUXE PAINT 4
F020 +HALC FONT
F023 +COMPUTER EYE FONT 1
F024 +COMPUTER EYE FONT 2
F025 +VANITY FONT VOL 1
F040 +DIGGY FONT VOL 1
F045 +MEGA FONT VOL 1
F050 +PS LOGO FONT 1-9
F060 +CG FONT (1-7)
F070 +PAGE STREAM FONT (1-6)

SAMPLES

S001 +SAMPLE ST VOL 1-50
S151 +MEGA MODULES
S171 +HOUSE SAMPLES A
S172 +HOUSE SAMPLES B
S173 +HOUSE SAMPLES C
S174 +NOISELESS MOZART
S175 +KORG SAMPLE (3)
S201 + ST. MODULES (01-40)
S401 +NT MODULES (1-3)
S501 INSTRUMENT (1-5)1

C64 EMULATOR
& OVER 50 C64 GAMES
PACK ONLY...£4.99

SPECTRUM EMULATOR
& LOADS OF GAMES
PK1 ONLY...£4.99
ALL AMIGA

101 GAMES PACK ONLY £12.99
Suitable for all ages & for all Amigas

30+ GAME PK 1,2 OR 3 ONLY £3.99 EACH

D.PAINT FONT
VOL 1 (4 DISKS)
(190 + QUALITY BIT MAP FONTS)
ONLY £5.00

D.PAINT FONT
VOL 2 (4 DISKS)
(140 + QUALITY BIT MAP FONTS)
ONLY £5.00

PS LOGO FONT
VOL 1 OR 2
(4 DISK PER VOL EACH)
Full of quality various size (6pt to 80pt) bit map font
ONLY £5.00

TOP QUALITY
DTP CLIPART
VOL 1 - 48
Very high quality clipart suitable for page stream or any DTP program that support 1mg format
99p per disk

AVAILABLE NOW!
ASSASSINS
VOL 1 - 94
(HIGHLY RATED GAMES PACK)

EDUCATION &
21 GAMES PK 1
OUR BEST SELLER
BEST OF EDUCATIONS
& 21 GAMES
(FOR ALL AMIGAS)
ONLY £5.00

R.S. DEMO
MAKER 1 &2
5 DISK SET
THE BEST DEMO MAKER YET
(A500(1.3) ONLY)
99p per disk
EXTRA FONT & LOGO AVAIL.

COMPATABLES NOTE
A500 (WB 1.3)........ANY DISK
A500+/A600........WITH A (+)
A1200 (WB 3)....WITH A (A)
CDTV/A1500/A2000 ETC
Check for (kickstart) that match one of the top AMIGA

☑ **FULL TEST ON A500/A600/A500+/A1200ECT**
☑ **Use top quality disk & FIVE STAR LABLES**
☑ **All our disks are 100% error and virus free**
☑ **Order despatch same day (within 24hrs)**

OVER SEA TRADER
WISH TO BECOME AN OFFICIAL FIVE-STAR PD DISTRIBUTOR PLEASE WRITE TO US (LIMITED)

PRICE & HOW TO ORDER

PRICES....................99p per disk
POSTAGE.............70p per order
(Europe add 25p per disk for P&P)
(Worldwide add 50p per disk P&P)
Make PO or CHEQUE payable to: FIVE STAR PD Send to: →

FIVE STAR
(DEPT CU8)
48 NEMESIA
AMINGTON
TAMWORTH
B77 4EL
TEL: 0827 68496
(OPEN 7 DAYS MAN 9am til 2pm)

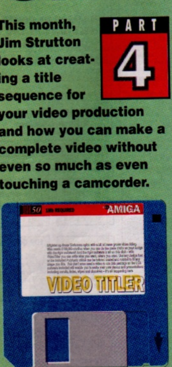
FREE CATALOGUE
YES FREE TITLE LIST CATALOGUE WITH EVERY ORDER OR SAE WITH 1 STAMP

DISK CATALOGUE
Send 3 x 1 class stam (Include P&P). We reccommend the disk catalogue as it contained full discription of over 3000+ disks & special offers & loads of goodies

VIDEO TITLING ON YOUR AMIGA

PART 4

This month, Jim Strutton looks at creating a title sequence for your video production and how you can make a complete video without even so much as even touching a camcorder.



If you need to put more than one or two pages of titles into your video, the whole thing can be a bit of a trial. What you need is a tool that will organise the graphics and do the hard work for you. *Lights! Camera! Action!* (*LCA*) is exactly the software that you need.

LCA can organise graphics using both lo-res and hi-res format graphics. You can incorporate any pictures you want with *LCA* once they are converted to lo-res. To convert your pictures you can use either The *Art Department* program, which was free with the May issue of CU AMIGA, or you could convert your pictures in *Deluxe Paint*.

There are some drawbacks, though, with *LCA*: you cannot use HAM, AGA or any over-scan pictures and it is important to remember that all the graphics should use the same palette or else the colours will look terrible when you change frames.

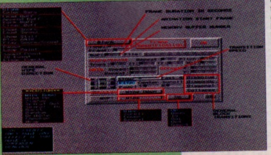
LET'S GET STARTED

To access *LCA*: load up a copy of the *VideoTitler* disk and then double click on the LCA icon in the disk directory. After the sign-on messages have finished you will see an empty LCA project. In the centre of this program box are four areas: frame number, time, frame and action. Frames zero and one are created automatically for you, because you must always have a start and end frame as a minimum for any project. The four control buttons at the bottom right of the box are: insert a frame, edit a frame, delete a frame and clear the whole project. Be very careful with the last control button because even though it does give you a warning, one slip of the mouse and you've lost all your hard work.

First of all, go to the 'insert a frame' box. Choosing 'insert' will place a new frame before the frame that you want to select. Start by selecting this previous frame, "**End Black*", by clicKing on it with the left mouse button. Now click on the 'insert' button and you should see a new frame called "**Blank**". Click to select it and then click on the edit button. You will now see a new screen like the one in *Figure one*. I have captioned this, so you can see what the various controls do. To make the frame do something, you click on the blank button in the top-left corner. Select the 'show still' option from this menu and then release the button. Click on the 'file: box' and use the requestor to select a graphic that you know to be lo-res. Set the 'time: box' to 10 and click on OK.

Now enter <Right-Amiga> 'P' to play back your sequence or use the 'play once' option from the video pull-down menu. You should see a black screen followed by your selected picture, followed by fade-to-a-black screen. Click the left mouse button to get the main screen back. Once you get it to work, add another frame. Select the last frame and click on insert as the new frame is always put before the one you have selected.

Figure 1: The main option edit screen of LCA. All the various controls and options have been captioned in the pictured.



Now you can edit your new frame. Try some of the 'block:' and 'MVP:' functions at the bottom of the screen. The possibilities are endless for your frame. For example, you can change the speed of the events or you could even change the starting position of frames by clicking on the various options and selecting from the menus. The combinations are numerous; so experiment for a while.

Once you have finished experimenting, click on the clear button to erase the frames and get back to a clean project. Insert a new frame as before and open up the edit dialogue. Select the option 'play Anim' from the top left box and then select a suitable lo-res animation. Click the OK button and then play back the sequence as before. You should see the animation play once and then the familiar black screen. Edit the frame again and this time change the values in the speed: and repeat: boxes. If you change the number in the frame: box, you can change the start frame in the animation.

You cannot judge exactly when the animation will start, because of the time it takes to load. However, there is a way around this. First of all, clear the project, add two blank frames, open the first frame for editing and select the load buff option. Then change the 'buf: box' to 1 and then select your animation file. Now edit the next frame. Select 'play Anim', but instead of a file, change the 'buf: box' to 1. Make any speed and repeat changes you want and then click on OK. Play the sequence back and note the difference, you will see a black screen until the animation plays and then the animation will run from memory.

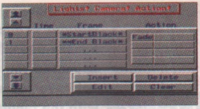
You can add to this effect by putting a still graphic as the first frame for about 20 seconds. This will be displayed, while the animation loads in the background. To do this you can use the buffers numbered from one to ninety nine, assuming you have enough memory. Buffer zero, however, is used by the system to load everything else, so leave that alone.

You can load stills or animations into buffers, so you could use a buffer to load a base graphic that you were going to come back to several times. You can even load a series of animations into a single buffer using the 'append buff' option, but watch your memory.

The 'color bars' option also provides a useful set-up screen for your presentation. The 'loop point' option identifies the frame that you want to loop back to when the script reaches the end, but it only works if you select 'run loop' from the menu. If you want the script to pause at a point, then add a pause frame.

Having mastered all these little tricks, how do you go about using it to create your video masterpiece? The professional way is to edit the video shots, time the sequences and then set up LCA with the times for each frame.

However, you can cheat by creating a sequence of graphics and then running the script under manual control, <Right-Amiga> 'M', which means that the changes only occur as you click the mouse. If you need a black screen as a break in your sequence, just leave it as a "**Blank**" frame. Any reference to SG in the program is for Digital Creations' SuperGen GenLock, which is only available in the USA.



This is *LCA*'s main screen. To get the edit options menu, go to the 'insert a frame' box. Choosing 'insert' will place a new frame before the frame that you want to select. Start by selecting this previous frame, "**End Black**", by clicking on it with the left mouse button. Then the edit option menu will pop up.

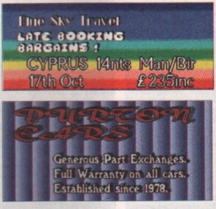
HOW TO MAKE AN INFORMATION VIDEO

The hot subject in the AVPG (Amiga Video Producers Group) at the moment is the creation of information videos. These are low-cost productions that consist of a series of graphic frames and short animations lasting two and three minutes which are then repeated on a long tape. You create these productions by designing the graphics and animations and then load them into LCA as a script. Ideally, it should all run from memory after loading, or the disk drive could wear itself out.

To make your own information video you must, first of all, connect a GenLock or PAL encoder to a VHS VCR, ideally with a Long Play or LP option. Now put in a good-quality four-hour tape and just loop the script, leaving it to record for eight hours on LP. These tapes are then ideal for use in a store window, overnight or during the day for a moving display. A TV and VCR should not cost too much, or any hire shop could supply the equipment. A quality tape will play 100 times before the wear is noticeable, so it has a life of about three months. Rather than producing copies, offer an update service with a new tape every month. Charge to set up the graphics information and then charge less for each update. The going rate is from £200 for the initial tape and about £70-£80 for each update.

You may not make enough money to retire, but you can surely make a good contribution to your equipment budget. Start off by making a demo tape. Keep it short, keep it punchy and above all make sure you use your very best graphics. Loan, don't give this tape to prospective users. Leave it with them for a couple of days before going to collect it and ask them what they think.

If you hit the big time, make sure you write and tell us at CU AMIGA.



Above: This is a single graphic frame from a late booking advert video for a travel agency.
The picture beneath it is the starting frame of a video for a secondhand car dealer.

NEXT MONTH

Next month, we will be covering basic video editing. Using Video Director as an example, we will show how to make the editing process less painful. Roll the Amiga...

FOOTBALL TACTICIAN 2 ITALIA

The thrills, the passion and the glory of the world's most exciting league!

Firmly established as the definitive football strategy game, FOOTBALL TACTICIAN 2 is now available in three superb versions: FT2 England, FT2 Scotland and now FT2 Italia with the fabulous serie A and serie B, all already updated with the latest 93/94 stats.

Can you take Milan or Lazio to the very top?
The italian league is no ordinary arena. Winning the 'scudetto' requires a balanced, highly-tuned team. You will need all your management skills, vision and a flair with tactics. The competition is intense. There are no prizes for coming second. To accurately simulate life in charge of a top italian club, called for a program of proven reliability: only FOOTBALL TACTICIAN 2, developed over more than three years and continuously revised could achieve this task. FT2 ITALIA plays and handles like the original FT2. In addition, features specific to the Italian league (like title play-offs and anti-drugs tests) have been included. FT2 ITALIA oozes with realism and excitement.

What makes Football Tactician 2 so special?
* Biggest ever multi-user system: up to 46 users! (who said four was the limit?) Now with new rating system reflecting managers' ability and achievements.
* First ever fully interactive management game: intervene at any time during a match to change tactics, make substitutions, adjust formation or mark players.
* Most accurate player definition: 30 parameters including real ages, aptitudes, skills, caps, playing positions, fitness, morale and market valuation.
* Largest results database: 21290 match results and league positions going back 20 seasons all instantly retrievable. All of which may be printed out.
* Professional recording: 36 matches always recorded IN FULL for full-scale replay.
* First ever referee involvement: true to life behaviour. Beware of adopting 'rough tactics' when Jim Parker is in charge! The message is clear: know your refs.
* Fastest ever setting-up time: initial start-up in less than two seconds, thanks to 900K of super-fast machine code. Smoothness of action is FT2's hallmark.
* Most accurate editor: built-in intuitive editor capable of entering new players and fine-tuning all parameters. Essential for the serious user.
* 16 different tactics from rough play to offside-trap adjustable throughout the match. You manage your side before AND during the match.
* Three levels of match reporting, from highlights only to ball-by-ball commentary.

What are the new features?
* FA Premier League and Division One permanently in memory with full interaction, promotions, transfers, European pool, play-offs, local and European Cups.
* Man of the Match. Player of the Year. Manager of the Year. Transfer deadline. Pitch invasions. Fights between players.
* Easy selection of penalty takers, free-kick takers, wingers, captains, ball winners, play-makers, overlapping full backs, reserves, substitutes...
* Unique database-type search facility to locate any player in the league.
* Full-scale printing facilities: highly suitable for Play-by-Mail.
* Intelligent behaviour of computer sides capable of changing tactics to respond to situation on the field or making substitutions based on fitness and fatigue. Plus mid-week transfer and fitness news.
* Friendlies, top scorers charts, precise transfer markets, club history, financial position and much much more!

Why is FT2 not in the shops?
The very essence of a football strategy game is its accuracy. With transfers happening every day, rules being changed and players being injured, shop games are out-of-date the moment they come out. Some publishers issue yearly revisions. That may be fine but not fine enough for us. The FT2 you buy is 100% up-to-date. We revise the program and data weekly. There are no compromises. Who wants to play a game that says that Fiorentina are in serie A, or Forest in the Premier League? Who wants to play a game that features Eric Cantona at Leeds or Ruud Gullit still at Milan? No known football game is more up-to-date than FT2 and that's a fact!

Please rush 1 copy of
FOOTBALL TACTICIAN 2 £22.95 ☐
FT2 (Scotland) £22.95 ☐
FT2 Italia (serie A and serie B) £22.95 ☐
FT2 Double Pack (tick any two) £29.95 ☐
My machine is an
AMIGA A500 (one meg) ☐ A600 ☐
A1200 ☐ ATARI ST/STE ☐
Name
Address
I enclose cheque for My Visa number is
Visa or Access orders: same-day dispatch. Overseas please add £1 p&p

TALKING BIRDS 0702 523607
5 Minster Close Rayleigh Essex SS6 8SF

GAMES PROGRAMMING MADE EASY

PART 6

If the thought of chasing millions of ghosts around a maze doesn't really appeal to you, then why not have yourself a blast with the fabulous Dave Smithson's latest creation – *AMOSteroids*. Pixel violence rules ok!

AMOS

AMOS COMPILER
5362 K free
HELP
Disk
Disk
Setup Options

If you want to write fast arcade games in AMOS, then you'll definitely need to get your hands on the AMOS compiler.

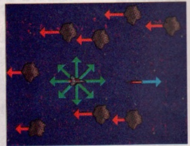
PSEUDOCODE LISTING

```
START OF LOOP
Set score to zero. Initialise position of asteroids.
At the start of main game loop check if the joystick has been pushed up, down, left or right? If it has, update the position of the spaceship accordingly.
If the joystick has been pushed up to the positions of all eight asteroids check if a missile has been fired? If it has, move missile.
If it hasn't, check if the fire button has been pressed?
Generate a new missile at ship's position.
Has the missile struck an asteroid? If it has; remove both asteroid and missile. Add 50 to your score. Has the score risen above a multiple of 1,000? If it has, increase speed of asteroids.
Has an asteroid collided with the player's ship? If it has; end game.
End game if it re-draws all sprites and bobs. Wait for vertical blank. Repeat main game loop until game ends.
Display score and high score.
Go back to start
```

Ask any would-be games programmer what type of game they would most like to write and chances are you'll get the same answer over and over again – a shoot 'em up. Even in these days of complex strategic simulations that take months to complete, the good old shoot 'em up is still the number one choice amongst budding Amiga games programmers. Perhaps it has something to do with the fact that the shoot 'em up delivers such instant gamesplaying pleasure. Or maybe it's because we still enjoy blasting the hell out of pixelised baddies!

Having already taken a good long look at *PacMan*, this month we move our attentions to the shoot 'em up which uses a very simple 'blast everything in sight' arcade game called *AMOSteroids* as a demonstration. The basic idea is to write an arcade game that is as fast and as furious as possible without getting too bogged down in code. Sounds impossible? Don't you believe it. *AMOSteroids* (which, incidentally, you'll find on this month's cover disk) was written in under a day using nothing more than a sound sampler (for grabbing sound effects), a copy of *Deluxe Paint 4* (for designing sprites and bobs) and of course that all important ingredient, *AMOS*.

The version that you'll find on the coverdisk has been compiled for that extra spurt of speed (something that is definitely needed when writing arcade games) using the AMOS Pro Compiler.



Drawing up a mock screen gives a much better idea of how the game should play. In this screen, you can see that the player's ship should be able to move to any point on the screen.

THE BARE BONES

So how does it work? Well, the best way to design and code a game like *AMOSteroids* is to start by drawing up a game plan. *AMOSteroids* isn't very complicated at all; the basic idea is to pilot a spaceship through an asteroid field by either avoiding the on-coming asteroids or by simply shooting your way through using your ship's laser cannon. In order to make this a reality, we need a number of basic ingredients. Here is our shopping list...

The Player's Ship – This will be an animated blitter object that can move around the screen under joystick control. I had originally intended that the ship would only be able to move up and down the screen.

However, I changed this when I realised that the game would be much more playable if you had complete control over the ship along both the X and Y axis.

Asteroids – Lots of 'em. In reality, I eventually decided upon a maximum of eight asteroids, all of which could be moving on screen at once. Ok, so it doesn't sound like a lot, but the beauty of *AMOSteroids* is the way it re-uses asteroids.

SPEED FIEND

If you've had a chance to play *AMOSteroids* yet, you will no doubt have already noticed just how fast it is. AMOS games generally tend to be somewhat slow, so how did we manage to squeeze such impressive performance out of AMOS? Well, apart from the fact that the version on the coverdisk is compiled, the main reason for the game's speed can be credited to the fact that the game uses no more than eight colours. Why? Although AMOS uses the Amiga's very rapid blitter chip to redraw bobs, they're still very slow when compared to hardware sprites. By using a screen with a minimal number of colours, however, it is possible to get a large number of bobs moving rapidly on screen simultaneously.

Blitter objects are drawn directly onto a screen's bitmap, so the more colours you use, the more information the blitter is forced to move around. I did originally try writing *AMOSteroids* in sixteen-colour mode but it proved to be just too jerky for comfort. If you count the number of colours used within the game, however, you'll notice that there are actually eleven colours on screen rather than eight. How did we manage this? Simple; you use hardware sprites. Sprites take their colour information from colours 17 to 31 onwards, so it's actually possible to display up to 24 colours on an eight-colour screen.

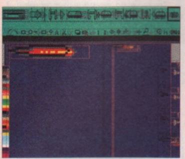
If you're intending to write an arcade game that needs to run very fast, then try to use hardware sprites as much as possible. Even if you find them rather limited, don't forget that AMOS offers its own derivative in the shape of the virtual sprite. Up to 56 of these beauties can be shown on screen at once with up to 16 colours each, so sprites aren't as limited as many AMOS programmers make out.

Another way to get an arcade game running as fast as possible is to turn off AMOS's famous automatic sprite redraw and AutoBack facilities that redraw blitter objects instantly and handle double buffer respectively. Don't worry too much about the technicalities behind this; we'll be covering this last technique in quite some depth very shortly.

For example, when an asteroid has travelled across the screen and disappears from view, it's turned off and a new asteroid is generated in its place. The asteroids should move at different rates, therefore allowing some asteroids to overtake others. Not only will this make the game more challenging, but it will also give a greater feeling of depth to the asteroid field. Finally, the asteroids will be animated so that they appear to roll as they move across the screen.

Missiles – Well, a single missile actually. The player needs some way of blasting any asteroids that are in their way, so the player's spaceship will need to be armed with a laser cannon that can fire a missile at the oncoming asteroids. If you're feeling adventurous, you may want to have a go at extending this routine so that several missiles can be fired.

Collision detection — Two forms of collision detection will need to be taken into account. Firstly, we need to check whether the player's ship collides with any of the asteroids. If it does, then the ship will be destroyed.


Using hardware sprites within your AMOS games can increase the number of apparent colours on screen.

Secondly, we need to check whether the missiles fired by the player's ship hit any of the asteroids. If this happens, the asteroid in question is destroyed and the missile removed from the screen. If we were to allow the missiles to hit several asteroids, the game would be far too easy. As it stands only a single asteroid can be destroyed per shot.

Game Progression – They say practice makes perfect, so our game will totally screw this theory up by making the action progressively harder as the player progresses through the game. This is vital in every arcade game because if you make every level just as easy as the last, the player will complete it in no time and get very bored with the game. I did have a number of ideas on how to keep a player's interest when I originally designed *AMOSteroids* and I finally plumped for a simple routine that increases the speed of all the asteroids every time the player scores 1,000 points.

IDEAS INTO ACTION

Now we've got a basic overview of how the game should play, we need to draw up a basic outline of how the game code will work by designing the 'main game loop'. As any games programmer will tell you, the main game loop forms the heart of all games and without it, your game won't run. It controls the flow of the game from a very high level.

Do not to attempt to get stuck into your coding straight away, you should design your main game loop using what professional programmers call pseudo code. Those of you who read my *PacMan* tutorial will have already encountered pseudocode; basically it's nothing more than a description of the game code in English. The pseudo code for *AMOSteroid's* main game loop is on the bottom left-hand corner of page 156.

Right, let's start by taking a look at the code that controls the player's spaceship. This is perhaps one of the simplest of all the routines used by the game as it does nothing more than to read the value returned from the player's joystick. If the joystick is moved up, then the ship is moved up by 4 pixels. If the joystick is pushed left, then the ship is moved left by 4 pixels and so on.

Obviously, we need to confine the spaceship in the boundaries of the screen, so a couple of very simple checks are made to make sure that the X and Y co-ordinates of the ship blitter object never fall below or exceed a set of predefined limits.

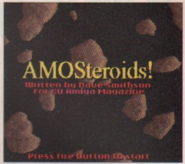
When playing the game, you may notice that the player's ship boasts a bit of very simple animation. Don't expect anything too flash; all I've done is to display a different blitter object image to indicate the roll of the spaceship. As the ship moves upwards, the ship rolls to the left revealing its undercarriage and when it moves down, it rolls right. We could have used AMAL (AMOS's interrupt driven animation language) to control this animation, but I've chosen a more manual solution that defines which view of the ship should be used according to the direction of the joystick. Anyway, here's the code in all its AMOS glory.

```
Rem***MOVESHIP Procedure
Rem *** Moves player's ship using joystick
Rem *** SHIPYPOS = Y Position of ship
Rem *** SHIPXPOS = X Position of ship
Rem *** FRAME = Animation frame of ship
Procedure MOVESHIP
FRAME=9 If Joy(1) and 1
SHIPYPOS=SHIPYPOS-4 FRAME=10
End If If Joy(1) and 2
SHIPYPOS=SHIPYPOS+4 FRAME=11
End If If Joy(1) and 4
SHIPXPOS=SHIPXPOS-4 End If If Joy(1) and 8
SHIPXPOS=SHIPXPOS+4 End If
Rem *** Keep spaceship on screen
If SHIPYPOS<10 Then SHIPYPOS=10
If SHIPYPOS>230 Then SHIPYPOS=230
If SHIPXPOS<10 Then SHIPXPOS=10
If SHIPXPOS>285 Then SHIPXPOS=285
Bob 10, SHIPXPOS, SHIPYPOS, FRAME
End Proc
```

There's a couple of points worth noting about the code. Firstly, note how the joystick is read — quite a few AMOS coders read the joystick using a line such as: if Joy(1)=<value>', but this tends not to be particularly reliable, especially if the joystick that you use is a bit flaky.

What you must remember is that AMOS is also capable of reading diagonals too which can confuse your game resulting in a joystick movement routine that is unreliable and therefore frustrating for the player. By using the logic operation 'and', all eight directions of movement can be taken into account using just four IF...THEN structures. Try to keep this in mind whenever you attempt to write an arcade game that uses joystick input.

Finally, the space ship is kept within the screen boundaries by constantly checking the values held within 'SHIPXPOS' and 'SHIPYPOS', the two global variables used to keep track of the ship's movement. You can easily limit the area of the screen that the ship can move around in simply by adjusting the minimum and maximum values of these two variables. Note how the fire button isn't monitored at this point – this is done when we come to process the missiles. And the gameplay gets even more exciting next month when we'll be adding asteroids – so don't miss our next issue. CU



Hidden in there somewhere is a cheat mode that will make your spaceship invincible. Can you find it in the source code? *AMOSteroids* may be a very simple arcade game, but it's very playable (if I don't mind saying myself!). Because the game becomes progressively harder, it's unlikely that you'll ever get a high score more than 10,000. If you can, then I'll be very impressed indeed.

PLAYING THE GAME

Unlike previous AMOS programming projects, I've decided to put our AMOS game on the coverdisk so that you can play it for yourself. Thanks to the wonders of the AMOS Professional Compiler, it is stand-alone so you can run it even if you don't own AMOS. Just double click on the *AMOSteroids* icon and the game will load. No extra files are needed, so you can easily transfer it to another disk if you so wish. All that remains is to plug in a joystick and get blasting!

The basic idea behind the game is to clear a path through an asteroid belt by shooting the asteroids with your ship's photon laser cannon. Your ship has a rather aged cannon that can only fire a single blast at any one time, however,so plan your shots well as you can only fire again if the blast hits an asteroid or leaves the screen completely. Points are awarded for each asteroid you obliterate but be warned that as you penetrate deeper into the asteroid field, so the asteroids become ever faster. Only the most adept pilots will survive!

If you find that you're not doing to well at all, then you'll be pleased to learn that I've also coded a cheat mode into the game. When you enter a certain combination of keys when the AMOSteroids title is showing, you'll hear an audible beep which will indicate that the cheat mode is active. From then on, your ship is totally invincible allowing you to blast away those nasty asteroids without having to worry about scratching the lovely paint job on your space ship. How do you access it? Well, that would be telling. I'll give you a hint though; you'll need to hold down the left shift key and enter a certain five-letter word. If you want to find out what the word is, then I'm afraid you're going to have to study the source code (which is also on the disk) for yourself. Happy cheat mode hunting! For those of you that fail to find it, I'll print it in next month's issue!

The cheat mode isn't just included for a bit of fun though; why not study the cheat mode code for yourself (I have marked out the section of code in question) and try adding a cheat mode to your own AMOS games. I think you'll find that it's a lot easier to do than you may just think.

NEXT MONTH

Next month, we'll be taking *AMOSteroids* one step further with the addition of the asteroids. In the meantime, load up the compiled version of *AMOSteroids* that you'll find on the coverdisk and enjoy blasting those asteroids. Bet you can't beat my high score of 9150!

HYPERBOOK MASTERCLASS

58
A500, A500+, A600, A1200 COMPATIBLE
CU AMIGA
HYPERBOOK
HYPERPROJECTS
1Mb
BY GOLD DISK
WORTH £70

PART 3

Jason Holborn takes a another look at *HML*, *HyperBook*'s powerful *ARexx*-based macro language and even manages to find space to start work on a HyperBook database.

Welcome back to the CU AMIGA *HyperBook* column, the section of the magazine dedicated to Gold Disk's multimedia marvel, *HyperBook*. Last month, we took our first tentative steps into the world of *HML*; *HyperBook*'s very powerful built-in macro language. If you read last month's article, you'll already know that *HML* lets you write scripts that provide low-level access to *HyperBook*'s many multimedia talents. This month we continue the theme by taking a further look at *HML*'s many and varied talents.

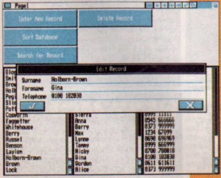
As your *HyperBook* applications increase in size and complexity, you may find it increasingly difficult to keep track of all the pages and objects that you've created. Thankfully, *HyperBook* does keep track of such elements and you can identify any object or page when you use *HyperBook*'s built-in object identification system. This identification system is a fundamental aspect of *HyperBook*'s macro language. It's vital that you understand this fact because virtually every command offered by *HML* expects to be told which object or page it should work on.

For example, if you had a page containing three 'list' gadgets, how is *HML* expected to know which object you're referring to?

For this purpose *HyperBook* uses a construct called an object number (better known as an objnum in *HML* terms). Every single page and object that you create is automatically assigned its own unique objnum which allows you to quickly pin-point an object or page, simply by telling HyperBook which object or page you are interested in.

HyperBook's objnum construct has a very special format that is similar to an AmigaDOS pathname. Just like AmigaDOS, an objnum can consist of a volume name (a page), a directory (a group) and a file (an object), each of which is separated by either a colon (for a page) or a back-slash symbol (/) for groups and objects. In its simplest form, you can refer to a page only by passing the page number terminated by a colon. For example, the objnum construct for page 2 in your *HyperBook* stack would be 2:h Taking this example further, you could identify object 4 on page 2 using: 2:4.

Here's our HyperBook database after just a single issue – pretty impressive stuff eh!



Surname Holborn-Brown
Forename Gina
Telephone 0100 102030

Handling lists using *HyperBook* objnums is just as easy. If the list was object number 2 on page 3 and you wanted to work on the fourth item in the list, the objnum would be 3:2/4. *HyperBook* uses two special objnums: 0 refers to the 'Bin' window and a colon on its own refers to the current page.

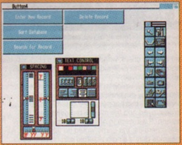
WHAT'S IN A NAME?

Obviously, there's a big disadvantage with using objnums on the fly. How do you know what objnum is attached to what object? Simple: you pass *HML* the name of your object. This means that every object you create must have its own unique name. Therefore, its no good calling all your lists 'Mylist' or something similar. If you do, *HML* won't have a clue which object it should work on. In order to identify an object using its name, *HyperBook* has a special object name() function that will automatically get the objnum of any object. For example, if you had created a button called EnterRecord and you wanted to find out its objnum, all you would need to enter would be something like the following.

```
buttonnum = EnterRecord()
```

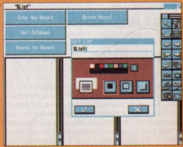
This line would ask *HML* to place the object number for an object (in this case a button) called EnterRecord into an *ARexx* variable called buttonnum. From here on, you can access that button, safe in the knowledge that *HML* won't be attempting to communicate with any other objects in your *HyperBook* stack.

They say the best way to understand anything particularly complex is to try it for yourself, so this is exactly what we'll be doing over the next couple of months or so. As promised last month, we'll be creating our very own *HyperBook* database that will allow you to keep track of all your friends' and relatives' phone numbers. So let's get stuck in.



① Before we can write any *HML* Macros, we need to start by setting up the database's screen display. First, let's start with the four buttons that will be used to control the database. Select 'Create Button' from the *HyperBook* toolbox and create four new buttons of equal size arranged on the screen as shown.

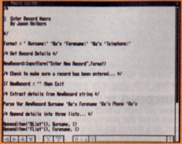
Once all of them have been placed onto the screen, select the 'Edit Object' tool and enter the labels 'Enter New Record', 'Sort Database', 'Search for Record' and 'Delete Record'.



SList

② Next, we need to create three list gadgets that will contain the three fields of information that our database will hold. Click on the Create List tool and then drag out three lists of approximately the same size, shape and position of the those shown in the illustration above.

Our database must be able to access these three lists directly, so click on the Edit Object tool, click once on the first list with the left mouse button and then click once with the right mouse button to bring up the Edit List requestor. Change the name of this first list to SList and then repeat this procedure for the second and third lists calling them FList and PList respectively.



```
/*
  Enter Record Macro
  By Jason Holborn
*/
Format = ' Surname:' '0a'x 'Forename:' '0a'x 'Telephone:'
/* Get Record Details */
NewRecord=InputForm("Enter New Record",Format)
/* Check to make sure a record has been entered... */
If NewRecord = '' then Exit
/* Extract details from NewRecord string */
Parse Var NewRecord Surname '0a'x Forename '0a'x Phone '0a'x
/* Append details into three lists... */
Appenditem('SList'(), Surname, 1)
Appenditem('FList'(), Forename, 1)
```

③ Now, with the screen display now complete, let's start work on our first *HML* macro. In this case, the macro to control the input of new records. Go up to *HyperBook*'s pull-down menus, select Create Macro and enter the following macro:

```
LISTING....
/*
Enter Record Macro
By Jason Holborn
*/
Format = ' Surname:' '0a'x
'Forename:' '0a'x 'Telephone:'

/* Get Record Details */

NewRecord=InputForm("Enter New
Record",Format)

/* Check to make sure a record has
been entered... */

If NewRecord = '' then Exit

/* Split NewRecord string into three
variables */

Parse Var NewRecord Surname '0a'x
Forename '0a'x Phone '0a'x

/* Append details into three lists...
*/

Appenditem('SList'(), Surname, 1)
Appenditem('FList'(), Forename, 1)
Appenditem('PList'(), Phone, 1)

/* Assign 'EditRecord' macro to all
three entries */

Position = NumElements('SList'())

SetActionMacro('SList'()'/'Position,
'EditRecord')
SetActionMacro('FList'()'/'Position,
'EditRecord')
SetActionMacro('PList'()'/'Position,
'EditRecord')
Exit
```

Once you've typed it all into *HyperBook*'s Macro Editor, click on the window close gadget and call this macro EnterRecord.

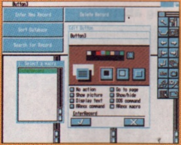
This macro starts by getting the record details from the user using the *HML* InputForm() function that we covered last month.

When you run this macro, you'll notice that three separate lines are requested; this is achieved by separating each line with a carriage return which is expressed in *ARexx* terms as '0a'x.

Once the record details have been entered, the resulting string is split into three chunks using the *ARexx* Parse Var command and stored into three *ARexx* variables called Surname, Forename and Phone.

The resulting variables are then transferred to our three list gadgets using the *HML* AppendItem() function.

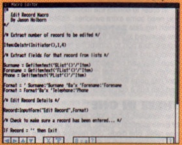
Finally, the EditRecord macro is attached to each entry so that when you click on any one of the three fields, the EditRecord macro that we shall be covering next is called up.



④ Now that we've successfully entered the first *HML* macro, we need to attach it to the Enter New Record button. Click on the Edit Object tool and then click once with the left mouse button and then once with the right mouse button on the 'Enter New Record' button to bring up the Edit Button requestor.

When the *Arexx* macro gadget pops up onto the screen, click on it and select Enter Record from the 'select a macro' window that will pop up.

Once you've finished all this, exit the Edit Button requestor.



```
/*
  Edit Record Macro
  By Jason Holborn
*/
/* Extract number of record to be edited */
Item=Delstr(Initiator(),1,4)
/* Extract fields for that record from lists */
Surname = Getitemtext('SList'()'/'Item)
Forename = Getitemtext('FList'()'/'Item)
Phone = Getitemtext('PList'()'/'Item)
Format = ' Surname:'Surname '0a'x 'Forename:'Forename
Format = Format'0a'x 'Telephone:'Phone
/* Edit Record Details */
Record=InputForm("Edit Record",Format)
/* Check to make sure a record has been entered... */
If Record = '' then Exit
```

⑤ With the EnterRecord macro now complete and attached to the appropriate button, we can safely enter the EditRecord macro that is called up whenever the user clicks on any of the entries in the three list gadgets.

To enter this data, first of all move the mouse pointer up to the *ARexx* pull-down menu and select Create Macro and then enter the following *HML* macro.

```
/LISTING
/*
Edit Record Macro. By Jason Holborn
*/
/* Extract number of record to be
edited */

Item=Delstr(Initiator(),1,4)

/* Extract fields for that record from
lists */

Surname =
Getitemtext('SList'()'/'Item)
Forename =
Getitemtext('FList'()'/'Item)
Phone = Getitemtext('PList'()'/'Item)

Format = ' Surname:'Surname '0a'x
'Forename:'Forename
Format = Format'0a'x 'Telephone:'Phone

/* Edit Record Details */

Record=InputForm("Edit Record",Format)

/* Check to make sure a record has
been entered... */

If Record = '' then Exit

/* Extract details from Record string
*/

Parse Var Record Surname '0a'x
Forename '0a'x Phone '0a'x

/* Put details back into our lists...
*/

Setitemtext('SList'()'/'Item, Surname)
Setitemtext('FList'()'/'Item,
Forename)
Setitemtext('PList'()'/'Item, Phone)
Exit
```

Once you've entered this macro, click on the window close gadget and then call this macro EditRecord. To test it, try entering a couple of records with the 'Enter New Record' function and then click on them within the list gadgets to run the EditRecord macro. The record should be pulled up onto the screen inside an Inputform() display, allowing you to edit it. To send the record back to the list gadgets, just click on the ok (tick) gadget.

There's a number of interesting points in this macro. Firstly, the objnum is obtained using the *ARexx* string function Delstr(). By default, calling the Initiator() function will return the objnum of the item that the user clicked on in the form of Pagenum:List/Item' (1:2/3, for example). But, because we need to extract the fields for the record that we wish to delete from all three lists, we use the Delstr() function to strip off the first four characters (the 1:2/ bit) leaving only the number of the item that was clicked upon. We can then use this to extract the same item from all three lists by building up the complete objnum using a string line 'objnum = 'SList'()'/'Item'. Clever eh!

Note too, how the edited record is put back into the three list gadgets using the *HML* function 'SetItemText()'. Have fun – I'll see you next month! CU

NEXT MONTH!

Next month, we'll be extending our database even further with the addition of the Sort Database, Search Database and Delete Database functions.

BUILD YOUR OWN ROBOT

PART 2

John Kennedy is desperate to replace the entire staff at CU with androids. He is still trying to perfect his team of robots. In this, the second part of his 'Build Your Own Robot' series, he looks at how you can get your robot up and moving about.

Last issue we looked at how the computer's practical circuit controls and receives signals from its surroundings. This issue we look at the mechanics of making your robot move and how you can control its movement. Let's start with the basics. The easiest robot you could build is nicknamed a buggy and is made up of a small platform which is carried around on some wheels with two motors. The two motors are independently controlled and each motor drives a wheel on either side of the platform.

How the buggy moves is simple; when both wheels move in the same direction, the buggy moves either forwards or backwards. When both wheels move in different directions, the buggy turns on the spot. Therefore, you can choose any direction and send the buggy off on its merry way until you decide otherwise.

How the robot finds its way around is also very simple. The platform can carry various sensors which provide the controlling computer program with details on its surroundings. For example, adding a touch sensor will enable the buggy to find its way around a maze. Or, if you add a light sensor, the buggy can follow lines or head towards a small desk lamp.

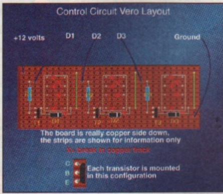

Control Circuit Vero Layout
+12 volts
D1
D2
D3
Ground
T1
D1
T2
D2
T3
D3
The board is really copper side down, the strips are shown for information only
X= break in copper track
C
B
E
Each transistor is mounted in this configuration

Figure 1. The control board consists of three identical circuits like this one. The input signal comes from the I/O port which are connected to the Amiga.

WARNING

READ THIS FIRST

We want you to enjoy building your project, so please take the time to read these warnings.

Although the project described here has been built and tested, neither the author nor CU AMIGA can be held responsible for any damage which may be caused to either yourself or your computer as a result of using it. As no mains voltages are required in this circuit it is extremely unlikely that you could electrocute yourself, but you should still take care. If your computer does not behave normally when the project is connected, switch off immediately. Check the circuit carefully for short circuits and wiring deficiencies. Always add or remove the parallel port connector with the computer switched off.

Never leave the soldering iron unattended, and always switch it off when it's not in use. It is all too easy to forget about it and then pick it up by the wrong end several hours later. If possible, wear protective eye-gear when soldering and use a vice or clamp to hold the circuit in place. Never splash hot solder around.

In order to control the movement of the robot you need some extra switches, called relays, which regulate the two motors. The relays use the low-powered signals from the computer via the input/output port to control the higher-powered motors and keep the circuits completely separate. Each relay can be switched on or off by passing a current into its internal coil becuase, once the current has gone through, the coil will act as a magnet and can pull a connection shut.

THREE IN ONE

The complete robot motor control circuit consists of three identical circuits, each of which require one relay, one diode, one resistor and one transistor. This sub-circuit is shown in *Figure 1*. The control line comes from the I/O port we looked at last month; the excellent little RM9011. See last month's *CU* for details on connecting this little marvel to your Amiga's serial port.

However, before we go any further, some of you may have spotted that the photograph shows that my board has five of the sub-circuits on it. Why is this? Well, I wanted my robot to have one or two extra features and adding the switching circuits at this stage makes more sense than squeezing them on later. All right then, I admit it, I thought I would need five relays but it actually turns out that three will do. I certainly wasn't going to unsolder all the relays just for a photograph! Seriously though, extra relays will come in handy for adding extra facilities to the buggy; such as pen up and down facilities for instance (for drawing on the floor, turtle style) or for creating a grabber.

LIST OF PARTS

Description	Number	Maplin's Code	Price
Ultra Miniature Relay	3 (see text)	JX55K	£2.25
ZTX300 Transistor	3 (see text)	QL46A	£0.18
1N4001 Diode	3 (see text)	QL73Q	£0.005
0K Resistor	3 (see text)	M10K	£0.03

Connection wire, veroboard, solder and a last month's CU AMIGA for details of the Input/Output port.

BUILDING IT

Before you begin to build your robot you must check to see that your veroboard is the right size. Next, do a dummy run of one sub-circuit (one relay, resistor, diode and transistor) by placing all the components without soldering them on. Check the positions, cut the connection wires to size, remove them all and make the necessary breaks in the copper track. Check the breaks with a multimeter if possible, to ensure that none of the copper swarf pieces are causing a short-circuit. *Note:* the breaks in the tracks are marked with red crosses in *Figure 2*. The relays used are small enough to fit into a standard 16pin DIL IC socket, so it might be a good idea to solder one of these in place instead of the relay.

Next, solder the diode into place, and then the resistor, transistor and connection wire. Three long wires need to be connected to the board, and these lead to ground, a 12 volt supply and pin D0 of the I/O port.

Check *Figure 2* to see whether the diode and transistor have been placed in the correct orientation. The ground is the same as the 5volt's supply ground, so the wire can be connected to the I/O board connector GND. Likewise, the D0 wire can be soldered directly onto the I/O board. The 12volt, however, requires some extra thought. A suitable 12volt supply is available from pin 23 of the disk drive port, although a separate 12volt DC PSU would probably be wiser if you have an external drive fitted.

If you do use a separate PSU, you'll need to connect its ground line to the other grounds as

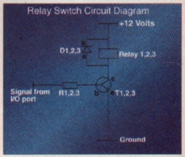
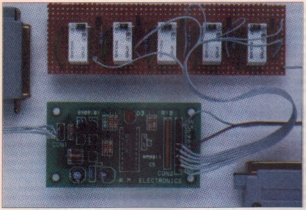


Figure 2. This illustrates an example layout of the components on veroboard. The components are placed on the blank side, with their legs passing though to the copper strips beneath, where they are soldered into place.


R.M. ELECTRONICS
CON1
CON2

Here is the finished robot control system. Notice the Input/Output card discussed last month, connected to the DIY relay card via some ribbon cable. The relay card features several circuits – each with a relay, resistor, diode and transistor – each connected to a single output of the I/O card.

well. The 12 volt supply is only needed to switch the relays on and off, and will therefore only need to supply several hundred milliamps of power.

TESTING

With one circuit built, it's a good time to test that everything is working according to plan, so connect the 25way serial connector and the 23way disk drive connector and switch on the Amiga. If the normal boot-up process doesn't start, *switch off immediately* and check your wiring. If the computer does boot up, load a Comms program such as NCOMM, and set the baud rate to 1,200. Use the split screen option, and enter: !C0 (return). The capital letter is important, as the I/O interface doesn't understand small letters.

This command quickly configures all the I/O port's control signals to be outputs. If the LED on the I/O interface doesn't flash, check to see if the Comms software is set-up correctly. Now enter: !W1 (return) This instructs the interface to make line D1 go high (switch on). The relay on the board should 'click' as it turns on.

Now enter: !W0 (return) and the relay should click again as it turns off. With this important test completed, you can switch off the computer and continue soldering until all the relay circuits are in place. Now you can perform the test again, except that this time use the values 2 and 4 as well as 1 with the !W command. You should be able to switch each relay on and off individually.

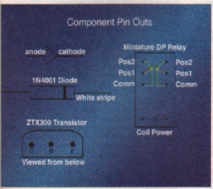

Component Pin Outs
anode
cathode
1N4001 Diode
White stripe
ZTX300 Transistor
C
B
E
Viewed from below
Miniature DP Relay
Pos2
Pos1
Comm
Pos2
Pos1
Comm
Coil Power

Figure 3. Here we see the pin-outs of the diode and transistor. The relay connections show how it works inside: when no voltage is applied to the coil, the Comm and Pos1 switch is made. When the coil is turned on, Comm and Pos2 are connected.

PROBLEMS

OK, I admit it, I'm not perfect. Heaven knows how the rumour started, but I'm not infallible. To prove it, the MIDI interface project had a mistake in the veroboard layout diagram. The wire connecting IC1 to R5 should go to pin 2, not as shown to pin 1. Apologies to all those who tried the project and experienced problems as a result – consider my wrist slapped (aoooww. sniff).

Other readers are having some trouble powering the various circuits we have built. There does seem to be some inconsistencies between different Amiga models as to the amount of power available from the parallel, serial and disk drive ports, so whenever possible please use an external PSU. A small 'battery eliminator'-style DC source will suffice, regulated if possible.

Here's a list of the values need to switch on the relays: !Wx – Relays turned ON

0	***None***
1	***Relay 1***
2	***Relay 2***
3	***Relay 1 and 2***
4	***Relay 3***
5	***Relay 1 and 3***
6	***Relay 2 and 3***
7	***Relay 1, 2 and 3***
8	***None***

For example, to switch on relays 1 and 3, enter:

!W5 (return)

HOW IT WORKS

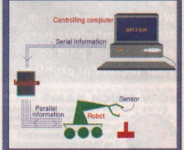
When the I/O port is told to send an ON signal, the transistor is switched on, allowing a current to flow through the relay's coil. This switches on the relay. When the I/O port goes low, the transistor switches off and the relay turns off too. The diode prevents any unwanted back voltage being produced when the replay coil turns off (the 'back EMF') thus preventing any damage to the transistor or I/O port.

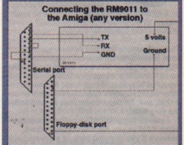
All the relays used are 'dual pole', which means they are really two switches in one, although the switching action is shared. That is, when one switch is turned on, the other is turned on too. Using the three switches to control two motors is an interesting little logic problem for you to think about.

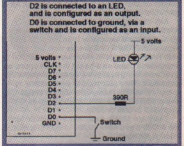
In fact, this is such a good teaser that I'll leave you with it until next month, when I'll give you my solution to this little gem of a brain puzzler. CU

OOPS!

Don't you just hate it when you've laboured long and hard on a feature and then it all goes to waste because of some silly printing cock-up? That's exactly what happened last month in the first part of this feature. A couple of the diagrams were practically unreadable, as I'm sure you noticed. Kind hearted souls that we are, we're reprinting the diagrams below so that those of you who want to build your very own working version of Robbie the Robot can do exactly that. Are we good to you or what?!

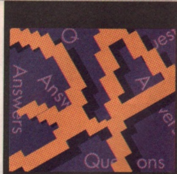

Controlling computer
AMIGA
Serial information
Interface
Parallel information
Robot
Sensor


Connecting the RM9011 to the Amiga (any version)
TX
RX
GND
5 volts
Ground
Serial port
Floppy-disk port


D2 is connected to an LED, and is configured as an output.
D0 is connected to ground, via a switch and is configured as an input.
5 volts
LED
390R
5 volts
CLK
D7
D6
D5
D4
D3
D2
D1
D0
GND
Switch
Ground

NEXT MONTH

It's life Jim, but not as we know it! Look out for next month's exciting installment when our robot comes alive and takes its first tentative steps.



With a nod and a wink, Mat Broomfield is here, again, to put paid to your technical problems.

HOW MUCH RAM?

How much fast RAM would you recommend for sound sampling or running programs like *Vista Pro*, the *Art Department*, etc? And what's the maximum that I can add to an A1200?

I am also thinking of buying an A1200HD. Would a 40Mb hard drive be large enough for most non-specialist purposes?

Sheldon Pink, Clapham, London

The applications that you've mentioned all have vastly different memory requirements. You can get away with only a 512k machine for sound sampling (although admittedly that would be very restricting). *Vista Pro* on the other hand, requires 4Mbs to even work on an A1200, and *Art Department* likes to have 2Mb at the very least.

I always suggest that you should buy as much RAM as you can comfortably afford, because if you're using serious software packages, no matter how much RAM you have, sooner or later it's not going to be enough for a particular job!

Any internal RAM that you add to your A1200 is going to be 32-bit fast RAM. This is quite a bit more expensive than the old A500 expansions. The A1200 comes with 2Mb of chip RAM as standard. However, most A1200 expansions come on a board that has space on it for something else like a clock or a maths co-processor. They also tend to come with a minimum of 4Mb (except the Golden Image board which comes with 1Mb and can be upgraded to 5Mb or 9Mb).

There are 128Mb expansions available for the A1200 if you have £5,000 to spare. Is that enough for now!

In answer to your second question, it depends by what you mean by non-specialist purposes. Judging by the programs you've mentioned using, I would say that you're already using some highly specialist software. *Vista Pro* for example, can generate animations of 15Mbs, and that's not even using the A1200's AGA screen modes!

As I said, when answering your RAM query, I always recommend that people buy the largest drive that they can comfortably afford, but if you can only afford a 20 or 30Mb drive, wait till you can afford a bigger one.

Statistically, the commonest mistake that most businesses make when installing a new computer system is underestimating the size of the hard drive they need. They base their estimates upon their current needs without any consideration of the future. If I were forced to recommend a size for you (given the use that you plan to put your computer to) I would suggest an 80–120Mb unit. This will last you well into the future rather than simply satisfying your immediate needs.

A1200 PERIPHERALS

As more A1200 peripherals become available, do you think that their prices will drop much? Please can you tell me what peripherals, if any, can we expect to see in the near future? Would I be wise to wait a month or so before deciding to purchase any peripherals?

Jim Edwards, Tredegar, Wales

Predictably, the price of just about everything in the computer market falls if you wait long enough. So, your choice is to either wait until the technology is no longer leading edge, but is cheap, or buy now at a premium price knowing that you have the best that money can possibly buy.

If you wait, you get to hear about any design flaws in a product, and you also see how well the product is supported by its manufacturer.

I usually wait a little while before buying my add-ons, although my GVP A530 Turbo drive was an exception that I haven't regretted for a single microsecond!

As for forthcoming peripherals, read the mag and you'll know. The news section is generally where you'll find any early product rumours or information.

BOOK RECOMMENDATION

What books would you recommend for the slightly more experienced user? I've had an A500 with *Kickstart 1.2* for six years, and I have recently bought a 1200.

Clive Walker, Waterlooville

Both Abacus and Bruce Smith Books produce a complete range of Amiga titles ranging from general beginners titles to very detailed expert level programming guides. What exactly do you want to know?

If you want to learn more about Amiga-related issues, I would suggest that you might like to turn your attention to *ARexx*, which is a very handy language that can be used to increase the functionality of virtually all 'serious' programs.

If you feel that this might be a bit beyond you, why not try to improve your knowledge of *AmigaDOS*, the language which is used for loading programs and manipulating them.

Take a look at the following:

Mastering Amiga Workbench (BSB)
Mastering AmigaDOS Volume 1 (BSB)
Mastering Amiga ARexx (BSB)
Using ARexx on the Amiga (Abacus)
Amiga Intern (Abacus)
The Best Amiga Tricks and Tips (Abacus)

All the above books should be available from Computer Manuals, 50 James Road, Tyseley, Birmingham, B11 2BA.
Tel: 021 706 6000.

WHICH IDE DRIVE?

I read your article about installing an IDE drive on the A1200 and noticed that you mentioned that IDE is the industry standard. Would this mean that it would be possible to connect any size IDE drive such as an externally mounted 3.5" drive?

Because I work with PCs constantly at work (ugh!), I discovered that the price of 3.5" drives is almost half that of the 2.5" ones which are recommended for use with the A1200. Would a 3.5" drive be a cheap alternative?

John Kerisygn, Derby

To be honest, the whole area of IDE drives is something of a minefield and it is an area that I don't want to encourage our less experienced readers to venture into.

IDE is supposed to be a single standard which all compatible drives adhere to, but this is not the case, and as far as the Amiga is concerned you have to be very careful which drive you buy. After asking around, I've been told that all Western Digital drives are compatible, as well as most Seagate and Connor drives.

However, what complicates the situation is the fact that there is no guarantee of compatibility. The compatibility of the drive depends on the revision number of both the drive and the computer motherboard.

However, there are companies who can fit you a 3.5" drive internally, so it's theoretically possible for you to do the same.

Needless to say, CU AMIGA will definitely not be held responsible for any damage you may cause if you choose to try and install a 3.5" drive, internally or otherwise.

32-BIT PCMCIA?

In your Muscle Up feature in the August issue you reviewed PCMCIA RAM cards for both the A600 and the A1200, but both cards appeared to be 16-bit. Is there a PCMCIA fast RAM card available with 32-bit RAM?

Norman Shearer, Corby, Northants

As far as the Amiga is concerned, a 32-bit PCMCIA card will never be available. On both the A600 and the A1200 the actual interface that the card slots into only has a 16-bit data bus, so even if a 32-bit card existed, information could only be written to and read from it 16 bits at a time.

JUSTIFIED VIDEO

I've had my A500+ for two years now. At first, I just used it as a games machine, but now I find myself using it more and more for DTP, art and music.

I've already invested in a few little essentials such as a RAM upgrade, an extra disk drive and a colour printer.

I have a video camera and I was wondering if I could feed some video footage through the computer and then, say, freeze a frame of the kids and either print the frame as is, or send the picture to an art package to be coloured-in prior to printing.

If this is possible, how do I do it and what extras do I need so that I can get permission from the wife to spend more money? (I'm creeping round her at the moment for permission to buy an A1200!)

D. L. Goddard, Pensarn, Wales

Yes it is possible to do what you want but you'll need a piece of hardware called a digitiser. A digitiser will accept any video input ranging from a camera to a video recorder. Most worthwhile digitisers will allow you to capture an image in both monochrome (black and white) or full colour.

In monochrome you can usually capture the image in 'real time', that is to say that you don't have to provide a static image for the computer to work with; it can simply convert a live action signal into a frame or sequence of frames.

In colour, all of the cheaper digitisers require a perfect still frame to work from as it generally takes a second or more to convert an image into computer format. This means that if you're digitising from video tape you'll need a very good pause mode on your video player (digital pause is best).

When digitising a real world scene (such as your kids), the more colours you use, the more accurate the finished image will be. On a standard Amiga, this means that best results will be gained if you work in HAM mode.

However, you'll be pleased to learn that this means that you'll get a much better result if you digitise on an A1200 rather than an A500. The A1200's HAM mode offers a maximum of 256,000 colours compared to only 4096 on the A500!

Once an image has been digitised, it can be saved as a standard IFF screen which can be loaded into an art package and printed whenever you want.

HOW TO EXPAND

If I add an MBX1200 and a hard drive to my A1200, can I fit a 68030 accelerator later on? I mean, will there be space for it inside the case and will it be compatible?
Ramor Dagge, Cuba

The hard drive makes no difference to the future expansion of your A1200 because it fits into a dedicated bay inside the machine. It is worth noting however, that if you fit a drive yourself, you invalidate your warranty. There- fore if the machine subsequently goes wrong you'll have to pay for the repairs yourself.

As for the MBX1200, it slots into the trapdoor expansion slot and only one peripheral can be fitted there at a time. If you plan to buy an accelerator later, you should not buy a plug in RAM board now.

LIMITED MONITOR

How many restrictions would an 1084 monitor impose if I used it with an A1200? And can I still use all of the computer's screen modes.
Éimear Whitfield, Crouch End, London N8

As you're doubtless aware, whenever you select an interlaced screen mode, the screen appears to flicker or pulsate, especially near areas of high contrast.

The only solution to this is a piece of hardware called a flicker fixer, and unfortunately it isn't available for the A1200 yet (if it ever will be).

To answer your question, you can use the 1084 monitor in all of the A1200's screen modes except productivity mode. Productivity mode is a special mode which despite being in high resolution does not require a flicker fixer or de-interlacing hardware. This mode is only used by a limited amount of 'serious' programs such as DTP and word processing software.

Whilst it is useful, I get along without it just fine, and you probably will too.

The colours on the 1084 will not be as saturated (as strong) as a multi- or tri-sync monitor.

Also the dot pitch of the more expensive monitors range between .38 and .28mm while the 1084 has a dot pitch of .42mm.

This means that the picture of the more expensive monitors will be sharper and of better quality.

Having said all that, I've been using 1084s for years and I'm perfectly happy with them!

CD ROM FOR A1200?

Will the A670 CD ROM fit into the A1200 considering the fact that it fits into the PCMCIA 'smart card' slot of the A600?

If not, will there be a CD ROM drive for the A1200?
Gonie Govenden, Kirby-In-Furness, Cumbria

The A670 will not fit on the A1200. The A670 will not even fit onto the A600 because so far as I know, it's been abandoned in favour of the CD32.

As you'll know, if you read last month's special feature, there is a CD32 CD ROM add-on planned for the A1200 and announcements about its specifications and price are expected by the time you read this.

OCTAMED HELP

I have read several references to the effect that *OctaMED* doesn't support triplets or anything smaller than semiquavers. While this holds true when using the graphic notation editor (traditional bass and treble clef display) it *is* possible to represent any value or combination of values using the block editor. It's simply a matter of calculating the appropriate number of lines required in a bar or measure, and then the number of lines occupied by a note of a particular value.

For example, in 4:4 time, demisemiquavers (32nds) would require 32 lines per bar with each demisemiquaver occupying one line. A crotchet would then last for eight lines, dotted crotchets 12 lines, etc. It becomes more complicated when you have say demisemiquavers (needing 32 lines per bar) and semiquaver triplets (which require 24 lines per bar) in the same bar. You now have to find the lowest common multiple of 24 and 32, which as every schoolboy knows, is 96.

Hence, 96 lines per bar, each demisemiquaver needs 96/32=3 lines whilst each semiquaver triplet requires 96/24=4 lines.
Keith Smith, Cwmbran, Wales

Thanks for taking the trouble to send such detailed advice Keith, I'm sure that many of our readers will find it invaluable, especially as you've explained the concept so succinctly.

Don't forget folks, if you have a useful piece of advice that you can share with your fellow readers, don't be a scrooge and keep it to yourself, write in and let everybody know.

SHOULD I UPGRADE?

I own a 1.3 Amiga 2000 and I am thinking of selling it and buying an A1200. Do you think that this would be a good idea? The only problem is, buying it from a dealer here in Kuwait will cost me KD 300 which is equal to about £650, and that's just for the basic version without a hard drive.

Are there any British companies who offer courier delivery to Kuwait at a reasonable price?
Hesham Wahby, Kuwait

I don't think that you should sell your A2000. Since the release of the AGA machines, the value of all non-AGA Amigas has taken a total hammering, so much so that it's no longer worth selling them to finance upgrades to more powerful machines. In any case, your A2000 is a good machine which is expandable and can be great as a second machine when you are performing jobs that tie the computer up for long periods.

The trouble with buying Amigas from a country other than your own is that you have to pay insured courier delivery. I checked with a number of companies and they all agreed that you will have to pay £95 shipping fees to get a 7.5 kilo Amiga from England to Kuwait.

Further complicating the situation is the fact that you must deduct VAT (a British tax charged at 17.5%) from the advertised price but you should be prepared to pay additional import taxes when the machine arrives in Kuwait. This tax varies from country to country and from product to product and you'll need to contact your local customs or duty office to find out how much it will be in your case.

The final point to consider is what will happen if the machine goes wrong. Obviously you don't enjoy Commodore's on-site warranty over there, so you would have to pay the courier for a round trip (another £190) if a problem arises.

All in all, I think that you're safer buyjng goods from somewhere local!

OKI MICROLINE

I am having difficulty in getting a printer driver, colour ribbon and a printer manual for an Oki Microline 294. Could you please tell where I can purchase one?
R.J.Smith, Weston Hill, Plymouth

Your printer supports Epson emulation, therefore you can use the EpsonQ driver on the Workbench extras disk. Of course, you may need to specify that you want Epson emulation mode, in which case you'll need the appropriate manual.

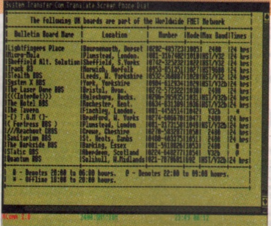
To get a new manual and find out about ribbons contact Oki at 550 Dundee Road, Slough Trading Estate, Slough, Berkshire, SL1 4LE. Tel: 0753 819819.

That's the end for another Q&A. Next month, John Kennedy, CU's resident ultra brain, will be joining me, so you can look forward to some really exciting new areas in next month's Q&A.

Write to us : Mat & John, Q&A, CU AMIGA, Priory Court,
30-32 Farringdon Lane, London, EC1R 3AU.

BBS EXPLORED

John Armitage leads the way deep into a typical Bulletin Board. Follow in his footsteps and discover the world of BBS.


System Transfer Com Translate Screen Phone Dial
NComm 2.0

```
+------------------------------------------------------------------------+
|        The Following UK boards are part of the Worldwide FNET Network |
+--------------------+-------------------+--------------+----+---------+------+
|  Bulletin Board Name |     Location      |    Number    |Node|Max Baud|Times |
+--------------------+-------------------+--------------+----+---------+------+
|Lightfingers Place   |Bournemouth, Dorset |0202-485723|1005|  2400   |24 hrs|
|Micro-Mola           |Plumstead, London.  |081-3167402|1010|HST/V32  |24 hrs|
|Sheffield Alt. Solution|Sheffield, S.Yorks|0742-325232|1022|HST/V32  |24 hrs|
|Track 83             |Norwich, Norfolk    |0953-851351|1027|HST9600  |24 hrs|
|STealth BBS          |Leeds, W. Yorkshire |0532-360087|1028|HST/V32  |24 hrs|
|System X BBS         |York, Yorkshire     |0904-612934|1029|HST/V32b |24 hrs|
|The Laser Dome BBS   |Bristol, Avon.      |0272-572322|1030|  2400   |24 hrs|
|<<<(InterNet)>>>     |Aylesbury, Bucks.   |0296-395935|1031|HST/V32b |24 hrs|
|The Hotel BBS        |Rochester, Kent.    |0634-831309|1036|HST/V32b |24 hrs|
|The Tavern           |Finchley, London.   |081-4456514|1042|  V32b   |  *   |
|-{} T.G.M {}-        |Bradford, W. Yorks  |0274-606670|1047|  2400   |24 hrs|
|< Fortress BBS >     |Plumstead, London   |081-3173150|1049|HST/V32b |24 hrs|
|///Reachout GBBS     |Crewe, Cheshire     |0270-583287|1050|  2400   |24 hrs|
|Sanitarium BBS       |St. Neots, Cambs    |0480-403375|1051|  2400   |24 hrs|
|The Darkside BBS     |Barking, Essex      |081-5910026|1053|  2400   |  #   |
|STatic BBS           |Aberdeen, Scotland  |0224-648277|1054|  V32b   |  @   |
|Quantum BBS          |Solihull, W.Midlands|021-7070601|692 |HST/V32b |24 hrs|
+--------------------+-------------------+--------------+----+---------+------+
|  # - Denotes 20:00 to 06:00 hours.   @ - Denotes 22:00 to 09:00 hours.
|  * - Offline 18:00 to 20:00 hours.
+------------------------------------------------------------------------+
```

If you want to get connected to a whole host and variety of different boards, try ringing some of these numbers.

Bulletin Boards are a tremendous source of information about games, hardware, software – heck – just about everything to do with computers and the rest of the universe. And most of them are absolutely free to use. There is no charge for 'connection time' or downloading; you only pay standard telephone fees. So, my advice is to use a local board and get all this information at a minimal cost. Want to find out more? Read on ...

To log onto a board all you have to do is to leave some personal details for the Systems Operator (SysOp) to validate you and hopefully within 24 hours you will have access to the board's main menu. (Well, that's how it worked for us courtesy of Lightfinger's Place, tel: 0202-485723.)

On the main menu there are loads of different options each leading to a variety of screens (or 'doors') which lead to the BBS's main features. The main menu can be displayed at any time by pressing '?'. When exploring, remember that '?' or 'HELP' will display your options, 'Q' will usually bring you back to the main menu and 'OFF' or 'QUIT' will take you out of the system and automatically disconnect your modem.

FUN AND GAMES

In the gaming section, there are quizzes of various sorts, as well as the more traditional adventure-type games. There is an added bonus with the adventure games because most on-line games can be played by many different users, sometimes simultaneously. So, you can interact with characters, talk to them, steal their treasure and even fight them, and somewhere, someone will be sitting at a keyboard cursing your name and plotting their revenge.

Luckily, you can save your phone bill if you get too carried away because most boards impose a maximum on-line time.

JARGON BUSTERS

- **BBS:** Bulletin Board System, the host computer to which you connect your computer via a modem.
- **BAUD rate:** a measure of the speed of a modem. 1,200 is the barest of minimums, 2,400 a bit slow and 9,600 is worth using.
- **SysOp:** systems operator – the mad fool who supplies (usually for free) the BBS for you to use. Be nice to this person.
- **Download:** copying a file from the host BBS system to your own computer.
- **Upload:** copy a file from your computer to the BBS system.
- **Modem:** the device which connects the serial port of your Amiga to the telephone network.
- **Email:** electronic mail.

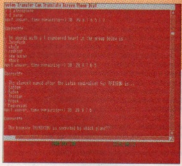
EMAIL

Email, the electronic mail system, is perhaps the most useful section of the BBS. You can leave messages, queries, or opinions on any subject matter. The messages usually involve the swopping of hints, game cheats, technical information and classified ads for second-hand equipment and it is constantly updating. Also, if the BBS is part of the 'Fidonet' system (Lightfinger's Place is), your messages will be bounced all over the country.

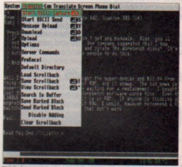
PD SOFTWARE

Most boards keep vast stocks of PD software, all ready for downloading. Depending on the speed of your modem, downloading software in this way will only take a few seconds. The software transmitted will be archived to save both storage space and download time; so make sure you have a copy of a program such as unzip, unarc and lharc. Most boards carry uncompressed copies of these programs to get you started.

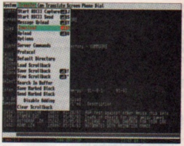
However, if you download programs, it is considered polite to upload something of your own. Some boards go so far as to impose a 'five down, one up' rule, which states that for every five files you download, you must upload one in return. Remember, before uploading, to check your files for viruses and archive them to save space.


System Transfer Com Translate Screen Phone Dial

Lightfinger's Board has a science quiz section and even keeps a high score table.


System Transfer Com Translate Screen Phone Dial
Start ASCII Capture
Start ASCII Send
Message Upload
Download
Upload
Options
Server Commands
Protocol
Default Directory
Load Scrollback
Save Scrollback
View Scrollback
Search In Buffer
Save Marked Block
Send Marked Block
Disable Adding
Clear Scrollback

Electronic mail is cheaper than first class mail, and probably quicker. If you use your comms software's ASCII caption menu option, mail can be saved to disk and dumped to a printer at a later date.


System Transfer Com Translate Screen Phone Dial
Start ASCII Capture
Start ASCII Send
Message Upload
Download
Upload
Options
Server Commands
Protocol
Default Directory
Load Scrollback
Save Scrollback
View Scrollback
Search In Buffer
Save Marked Block
Send Marked Block
Disable Adding
Clear Scrollback

You can get your own copy of these programs using the 'download' menu option. Use a ZModem if you can becuase it is probably the fastest.

TIME TO GO

When you finally drag yourself away from the board, why not drop the SysOp a line about his board? SysOps love to hear comments, so tell them what you think. You'll also be given a list of other boards to try; so get going. After all, the night is young, and there are many other BBSs to use, and people to meet. Happy hacking!

AMIGA PERIPHERALS

ROCTEC ELECTRONICS LTD

Roctec Electronics are one of the world's leading Amiga peripheral manufacturers. Based in Hong Kong, they are responsible for many of the Amiga's best peripherals. Silica Systems are pleased to present a selected range of their products at new, low prices. Many of the Roctec peripherals shown below are award winning products and best sellers in their own specialised markets.

3½" EXTERNAL FLOPPY DRIVE

"Highly Recommended" Amiga Format 93% - June 90

Environmentally Friendly
BIO-DEGRADABLE PACKAGING

Using a second floppy disk drive with your Amiga will make a dramatic improvement to performance. Running any serious applications or the latest games with a single drive, means constant swopping of disks and considerable waiting time. A second drive, improves software loading times and programs run more quickly not having to wait for disk insertions.

The award winning RocLite 3½" 880K external floppy disk drive is your ideal solution. Ultra slim and light, with a mechanism only 17.5mm in height, it is expertly designed and colour styled to match your Amiga and features anti-virus and no-clicking functions. It is also daisy chainable and includes an ultra low power consumption feature. The low Silica price of just £59, represents a saving of £10.95 off the normal RRP of £69.95 inc VAT.

- Built in anti-virus feature
- On/off/disable 'anti virus' mode
- Anti-click built-in
- Daisy chain allows additional drives to be attached
- Reliable Citizen drive mechanism
- Aluminium case
- Colour styled to match the Amiga
- Ultra low power consumption
- Slimline design - just 7.5mm high

SAVE £10 OFF RRP

ROCLITE RRP ~~£69.95~~

£59 INC VAT Ref: DRI 2969

ROCGEN PLUS GENLOCK

SPECIAL OFFER SAVE £99 ROCGEN PLUS + ROCKEY SEE BELOW

RocGen Plus
RocGen

Environmentally Friendly
BIO-DEGRADABLE PACKAGING

Using RocGen Plus, you can enhance and add excitement to your video footage, bringing a whole new creative dimension to your video production. The RocGen Plus is a high performance genlock for use with all Amigas. It allows you to superimpose titles, graphics, clip art or animations onto your videos. Also included are such advanced effects as fade-in and fade-out, plus inversion of graphics, which allows the subject of your video to show through the overlay. A new keyhole effect also allows you to make all but the background colour transparent. Dual dissolve control knobs provide freely adjustable, varying degrees of overlay or invert effects and, independent RGB and video pass through allows you to display Amiga and video sources separately.

- Auto RGB pass through function
- Three special effects modes:
  Amiga Mode: Amiga Graphics only
  Fade: Dissolve from Amiga to video in and vice versa
  Overlay/Keyhole mode: Amiga graphics displayed as an overlay
- Composite input/output
- LED status indicator
- Keyhole effect
- Hardware controls
- Compatible with RocKey for special video effects (see below)
- Bio-degradable packaging

SAVE £10 OFF RRP

ROCGEN PLUS RRP ~~£149~~

£139 INC VAT Ref: VID 2000

SEE 'VIDEO SPECIAL EFFECTS' PANEL BELOW FOR SPECIAL OFFER

'PICTURE IN PICTURE' TV ADAPTOR

SAVE £10 OFF RRP

Roctec PIP View allows you to watch one picture within another on your TV screen. This means you can have a game or application running on your Amiga and be watching a video or TV programme at the same time in a different area of the screen. Plus, it gives you a remote control facility for your TV.

- Picture in Picture TV adaptor
- 3 composite video inputs + one TV input
- Variable screen position for input display windows
- Adds remote control unit to your TV
- 99 programmable channels
- Digital tuner
- Headphone socket
- Includes power supply and remote control

PIP VIEW RRP ~~£99.95~~

£89 INC VAT Ref: MOA 9010

ROCGEN GENLOCK

SAVE £10 OFF RRP

The RocGen genlock allows you to enhance your video presentations by overlaying Amiga titles, graphics and animations onto your video source, eg, from a VCR or video camera. RocGen features three special effect modes; Amiga, overlay and fade. The special fade and dissolve knob, enables you to smoothly control the application of fade and overlay effects. RocGen is compatible with all Amigas and connects easily to the RGB port of your Amiga.

- Composite input/output
- Three special effects modes:
  Amiga Mode: Amiga Graphics only.
  Fade: Dissolve from Amiga to video in & vice versa.
  Overlay: Amiga graphics displayed as an overlay
- Hardware fader control
- 1ft connection lead
- Optional power input (from Amiga or external source)
- LED status indicator
- Compatible with RocKey

"Good value for a budget genlock."
Amiga Format

ROCGEN RRP ~~£79~~

£69 INC VAT Ref: VID 1900

VIDEO SPECIAL EFFECTS

SAVE £70 OFF RRP

RocKey is a keying device based on a colour splitter, that performs, amongst other special effects, Chroma Keying. This is almost the opposite of a genlock's function, allowing you to remove a particular colour from a video source and replace the 'keyed out' position with another video source or computer graphic. RocKey's sandwich function allows a video subject to be embedded in a graphic or vice versa. The built-in colour splitter controlled by Red, Green and Blue knobs, allows easy keying on any colour.

- Special effects: Chroma-key, Graphic Sandwich, Luma-key, Key Sandwich, Key Thru, Key Windows, plus many more
- Comprehensive hardware controls
- Compatible with most genlocks

To use RocKey you will need a genlock. Silica are offering RocKey with the RocGen Plus genlock for only £249! A saving of £99 off the normal combined RRP of £348.95!

SPECIAL OFFER!

"....this sort of video power is unbelievable."
Amiga Format - Jan '93

ROCKEY RRP ~~£199.95~~

£129 INC VAT Ref: VID 2010

ROCKEY + ROCGEN PLUS RRP ~~£348.95~~

£249 INC VAT Ref: VID 2020

EXTERNAL HD CASE

OPTION WITH 42Mb
RocMate

SAVE UP TO £100 OFF RRP

RocMate is a stylishly designed external case and power supply unit for use with SCSI hard drive mechanisms. It requires a SCSI interface with a 25-way D-Type connector. It is simple to install a hard drive mechanism and the case provides an ideal housing for people wishing to upgrade their hard disk storage with an additional external hard drive mechanism.

Silica are also offering this case with a 42Mb SCSI hard drive mechanism pre-installed, ready for connection to an existing interface, for only £149 inc VAT.

- Includes power supply - works with Commodore A590, GVP HD8+, HC8+ and G-Force Accelerator
- Requires SCSI i/face + 25-way D-Type connector

CASE ONLY RRP ~~£99.95~~

£89 INC VAT Ref: HAR 2000

CASE WITH 42Mb HARD DRIVE RRP ~~£300~~

£199 INC VAT Ref: HAR 2010

ALL PRICES INCLUDE VAT - DELIVERY IS FREE OF CHARGE IN THE UK MAINLAND

090893-0900

SILICA SYSTEMS - THE AMIGA SPECIALISTS

Before you decide when to buy your Amiga peripheral, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your peripheral, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years, we are Amiga specialists and are a Commodore approved dealer. With our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

- ***COMMODORE APPROVED UPGRADES:***
  Official Hard Drive upgrades with WANG on-site warranty.
- ***FREE OVERNIGHT DELIVERY:***
  On all hardware orders shipped in the UK mainland.
- ***TECHNICAL SUPPORT HELPLINE:***
  A team of Amiga technical experts will be at your service.
- ***PRICE MATCH:***
  We normally match competitors on a "Same product - Same price" basis.
- ***ESTABLISHED 14 YEARS:***
  We have a proven track record in professional computer sales.
- ***£12 MILLION TURNOVER (with 60 staff):***
  We are solid, reliable and profitable.
- ***BUSINESS + EDUCATION + GOVERNMENT:***
  Volume discounts are available. **Tel: 081-308 0888.**
- ***SHOWROOMS:***
  We have demonstration and training facilities at all our stores.
- ***THE FULL STOCK RANGE:***
  All of your Amiga requirements are available from one supplier.
- ***FREE CATALOGUES:***
  Will be mailed to you, with special reduced price Amiga offers, as well as details on all Amiga software and peripherals.
- ***PAYMENT:***
  We accept most major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

SILICA SYSTEMS

HOT LINE 081-309 1111

MAIL ORDER: Order Lines Open: Mon-Sat 9.00am-6.00pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX No Late Night Opening	**Tel: 081-309 1111** Fax No: 081-308 0608
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-6.00pm	52 Tottenham Court Road, London, W1P 0BA No Late Night Opening	**Tel: 071-580 4000** Fax No: 071-323 4737
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-7.00pm	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB Late Night: Thursday - 8pm	**Tel: 071-629 1234** Extension: 3914
SIDCUP SHOP: Opening Hours: Mon-Sat 9.00am-5.30pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Late Night: Friday - 7pm	**Tel: 081-302 8811** Fax No: 081-309 0017
ESSEX SHOP: Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm)	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Late Night: Thursday - 7pm	**Tel: 0702 468039** Fax No: 0702 468039

To: Silica Systems, CMUSR-1093-115, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE

Mr/Mrs/Miss/Ms: .... Initials: .... Surname: ....

Company Name (if applicable): ....

Address: ....

....

.... Postcode: ....

Tel (Home): .... Tel (Work): ....

Which computer(s), if any, do you own? 115A

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

100's of Amiga, Atari ST/E+
GAMES
UTILITIES
MUSIC plus
MANY
MORE

90p
at just

SEND NOW FOR FREE LISTS
AND ORDER FORM
NO OBLIGATION

PENGUIN PUBLIC
DOMAIN PO BOX179,
READING BERKS, RG3
3DD

**DATEL
ELECTRONICS**
*Govan Road
Fenton
Stoke-On-Trent
ST3 2RS
TEL: 0782 744324
10% DISCOUNT
ON AMIGA ACTION
REPLAY
See Our Advert on:
pages 146 & 147*

COLOUR
PHOTOGRAPHS
FROM YOUR
COMPUTER!

*Image Master can capture the images created on your computer using a sophisticated Colour Image Recorder and provide you with full colour photographic prints processed and printed at a professional laboratory.
With prices starting from as little as £1.50
Can you afford not to find out more?*
***For more details please send a S.A.E
to :- Image Master
3 Rugby Drive,
Aintree, Liverpool
L10 8JU***

JEWEL PD

Tel: 0623 754 061
19 HODGKINSON RD,
KIRKBY IN ASHFIELD NOTTS
NG17 7DJ

PRINTER CABLES 2 M £4.50

10 BLANK DISKS	£5.00
MOUSE MATS	£2.00

ALSO PRINTER RIBBONS:

STAR LC 20/NX 1000	£2.40
CITIZEN 24/120D	£2.80

ALL PRICES INC. P+P
ALSO PD & SHGAREWARE FROM 99P,
FREE PRINTED CATALOGUE
OR 3, SECOND CLASS STAMPS FOR DISK CAT.

AMIGA SPARES & REPAIRS

Power Pack	£29.99
A520 Modulator	£24.99
(Exchange only)	
Internal Drive	£35.00
A500 Repair	£37.99
Mouse	£6.99

*CHEQUE/PO TO:
OMNIDALE
23, CURZON STREET
DERBY DE1 2ES*
(0332) 291219

Pools
Professional 2

NewVersion 2.1
stores up to 16 League Divisions
predict 1-1s, score draws, homes & aways
Works with Eng/Scot & Australian leagues full printer support free program updates, printed user guide.
Only £12.95
send 3, 1st class stamps for demo disk. D. Ramsey, 2 The Paddocks, Haddenham. Bucks HP17 8AG.

GVB-PD
AMIGA PUBLIC DOMAIN
£1 DEPT. CU AMIGA £1

43 Badger Close Maidenhead Berkshire
SL6 2TE England
Phone 0831 649 386 Almost Anytime
**FOR CATALOGUE DISK SEND 3,
1ST CLASS STAMPS MAKE
CHEQUES OR P.O. OUT TO G. V.
BROAD**
Games, Animations, Demos, Slideshows, Utilities, Music, Games, Cheat Docs Disks
I stock Assassins Games 1 to 121
disk prices £1 inclusive.

TIGERSOFT

YOUR A1200 PD &
SHAREWARE LIBRARY

SYSINFO V3.18, POING
DISKSALV 2, WB GAMES
VIRUS CHECKER V6.28
£1.25 EACH--PP 75P
SEND S.A.E. FOR
**LATEST FREE LIST
94 MURE AVENUE
KILMARNOCK KA3 1TT**

ARNOLD COMPUTER SUPPLIES

AMIGA A500 CARTOON CLASSICS
£195.00
AMIGA A600 £195.00
AMIGA A1200 £295.00
FREE LOCAL DELIVERY (10 MILE RADIUS)
ALL YOUR COMPUTER NEEDS CATERED FOR.
PLEASE PHONE OR FAX FOR LATEST PRICES. MANGA VIDEOS NOW IN STOCK.
PLEASE RING FOR INFORMATION PACK.
PRICES FROM £10.99.
BARRY VOCE 0602 264 973.
11 CAMPION ST, ARNOLD NOTTINGHAM NG5 8GR

GAMES GROTTO

***Game exchange, Sega and
Nintendo from £3.00 + P+P
Amiga/PC PD Catalogue disk
only £1.00
PD Software 99p per disk.
Budget games from only £.4.99
Latest titles always in stock.***

**132 Derby Lane
Old Swan
Liverpool L13 3DW**

Tel 051 252 1020

LAZER PD

For all you PD FREAKS!!!
Loads of titles at **HAPPY** prices.
For more info **CALL (0566) 775164**
or **FAX (0566) 776444**
Send an SAE to LAZER P.D. 21
Tavistock Road, Launcheston,
Cornwall PL15 9HF for catalogue.

TO ADVERTISE
IN THIS SPACE
THEN PLEASE
CALL CHRIS
PERERA ON
071 972 6700
NOW!

MICROLAND BULLETIN BOARD SYSTEM

0891 990 505
To Download

0483 725 905
To View

Amiga shareware including files from the Fred Fish Collection plus lots more to download at V32bis, V32, V22bis, V22, V23, & HST 8 data bits, no parity.

Why wait for your software when you can download now direct to your computer. Microland offers high speed connections and most files are compressed to minimise the cost. Check it out on 0483 725 905 at normal call charges. So much shareware you are spoilt for choice.

Over 30 file areas including Animations, ARexx Files, Badge Killer Demos, Business, Clocks and Calculators, Commands, Database Directory and Disk Utilities, Display Hacks, Education, File Utilities, Fonts, Fractal and Mandelbrots, Games, Graphics, Icons, Libraries, Programming, and Communications. Area 1 contains file lists for all areas to help you find what you are looking for. Protocols xmodem, ymodem, zmodem, kermit, sealink, and uucp.

Calls to 0891 990 505 charged at 36p per minute cheap rate, 48p per minute all other times.
Treven Designs Ltd. PO Box 13. Aldershot, Hants. GU12 6YX.

JOIN THE GUILD OF
PROFESSIONAL
VIDEOGRAPHERS

We can offer Training Courses on Video/Amiga at very reasonable rates.

FOR INFORMATION PACK
FAX/PHONE:
0203 601966

NJH PD

Dept CU, 12 Meesons
Mead, Rochford, Essex
SS4 1RN
Tel: 0702 546796

1000's of other disks avalible call for latest disks or send 50p or 2 first class stamps for catalogue disk (Free with first order)

CODE	PRICES
+ = 500+/600 compatible	1-5 = £1.10
y = 1200 compatible	6-15 = 95p
(*) = Number of Disks	16+ = 80p
	add 60p per order P+P

FREE DISKS
ORDER 10 GET 1 FREE

REPAIRS
Repairs at £39.95 incl.
90 Day Warranty. Call for more info

We also stock Fred Fish, Assassins and Scope Disks

GAMES
- MEGABALL 2 +
- WIBBLE WORLD GIDDY +
- NEIGHBOURS (2) +
- BOMB JACKY +y
- FIGHT WARRIORS +y
- BALDER GROVE +y
- BATTLE CARS 2 +y
- SOCCER CARDS +y
- PUGGLES +
- E-TYPE 2
- DR MARIO +y
- 18 HOLE GOLF (2) +y
- BALLOONACY +y
- FRUIT SALAD +y
- GAMEBOY TETRIS +y
- TETREN +y
- ASTEROIDS 2 +y
- DONKEY KONG +y
- AGA TETRIS (1200 only)
- STAR TREK (2) +
- CARD GAMES +y
- AIR MANIA +y

DEMOS
- BRAIN SNATCHER +y
- JESUS ON E'S +
- STATE OF THE ART +
- DESERT DREAMS (2) +y
- REVELATIONS +y
- ALCHEMY (2) +y
- HOW TO SKIN A CAT +y
- TECHNOLOGICAL DEATH +y
- BAIT MASKING (2 MEG) +y
- QUALITY TIMES (5 MEG +y)
- SPEED LIMIT (2 MEG) +y
- DOLPHIN DREAMS +y
- LETHAL EXIT +y
- THE WALL (6) +y
- WICKED SENSATION (2) +y
- ODYSSEY (5)
- 2 UNLIMITED (2) +y
- MAYDAY RESISTANCE +
- LEMONIUM 12 +y
- CLAUSTROPHOBIA
- ALPHA OMEGA 2
- HOI AGA (1200 ONLY)

UTILITIES
- FONT FARM 3 +y
- KICK 2.3 +y
- FAKEMEM +y
- TEST ENGINE 4 +y
- V-MORPH 2.3 +y
- AMGIA BEGINNER +y
- SID 2 +y
- OCTAMED 2 +y
- ADVENTURE CREATOR +y
- GOLF RECORDER +y
- PROTRACKER 3.1 +y
- SPECTRUM EMULATOR 1.7 +y
- ACTION REPLAY IV (1200 ONLY)
- D.COPY 3.1 +y
- 600 LETTERS +y
- MESSYSID 2 +y
- KICKSTART 2 EMULATOR
- GAME CHEATS +y
- GRAPEVINE 16 +y
- NJH MODULES 1 +y
- NJH MODULES 2 +y
- NJH MODULES 3 +y

ORDER ANY P.D. REVIEWED IN THIS MAG

SRT - PD

FOR THE A500, A500+, A600 COMPUTERS

WE'RE CONFIDENT YOU CAN'T BEAT OUR PRICE ONLY 65p PER DISK

The New Catalogue On The Block with a large selection of Public Domain and Shareware Disks at a price so low you just can't afford to go anywhere else! All is revealed on our new Catalogue Disk Titles.

Write to us now and send 50p for your first many SRT Catalogue Disks To:
27, KINGSHOLM ROAD, WESTBURY -ON TRYM,
BRISTOL BS10 5LJ PAYABLE TO SRT PD

Colwyn Software

17 Gladys Grove
Colwyn Bay
Clwyd LL29 7UB
Tel: 0492 533442

A-TRAIN	19.99	FINAL COPY II	68.99
B17 F/FORTRESS	23.99	PRO PAGE V4.0	118.99
BODY BLOWS	17.99	PAGESETTER	43.99
CHAOS ENGINE	17.99	PROTEXT V5.5	103.99
DESERT STRIKE	19.99	WORDSWORTH V2	83.99
DUNE II	20.49		
GUNSHIP 2000	23.99	ART DEPARTMENT	43.99
FLASHBACK	20.49	ART DEPT PRO V2	133.99
GOAL	20.49	DELUXE PAINT AGA	68.99
GLOBAL GLAD	20.49		
LEMMINGS 2	19.99	FUN SCHOOL 2 (6-8)	6.99
PGA GOLF TOURS	19.99	FUN SCHOOL 2(under 6)	6.99
SEN/SOCCER 92/93	17.99	FUN SCHOOL 3 (5-7)	16.49
ROAD RASH	17.49	FUN SCHOOL 3 (7+)	16.49
STREET FIGHTER II	18.49	FUN SCHOOL 4 (5-7)	16.49
SUPERFROG	17.99	FUN SCHOOL 4 (7+)	16.49
SYNDICATE	23.99	MICKEY 123	17.49
THE LOST VIKINGS	23.99	MICKEY ABC	17.49
WALKER	19.99	MICKEY JIGSAW	17.49
WAR IN THE GULF	19.99	NODDY'S PLAYTIME	16.99

AMIGA A1200 NOW ONLY £284.95 inc. p&p
(Stand alone)

MANY OTHER SOFTWARE TITLES AVAILABLE.

Add £1 p&p on all software

PLEASE MAKE CHEQUES P/ORDERS PAYABLE TO COLWYN SOFTWARE

Full catalogue available on disk only £1 refunded with first order.

KT'S P.D.(SOFTWARE)
THE FAST AND FRIENDLY LIBRARY

FOR THE AMIGA USER
500 ☐ 500+ ☐ 600 ☐ 1200

GAMES
- ☐ SOCCER CARDS +Y
- ☐ GIDDY +Y
- ☐ DRMARIO +
- ☐ NEIGHBOURS (2) +
- ☐ SUPER SKODA CH +Y
- ☐ AMOS FRUIT II +Y
- ☐ FIGHTING WARRIORS +
- ☐ NUMERIC +
- ☐ DELUXE PACMAN+Y
- 18 HOLE GOLF GOLF (2)+Y
- ☐ DONKEY KONG +
- D. O.S +Y
- ☐ MICRO MARKET +Y
- ☐ ULTIMATE STAR TREK(2)+
- ☐ TERRIS AGA1200
- ROAD TO HELL +Y
- EGG BLASTER + Y
- ☐ BOMJACKY +Y
- **FRUIT SALAD +Y**
- **POPEYE +Y**

DEMOS
- ● HOI MINDWARP 1200
- ● TROJAN +Y
- ☐ RED SECTOR + (2)
- ☐ VOYAGE+
- ☐ TRON+
- ☐ ALPHA & OMEGA 2 (3)+
- ☐ BUDBRAIN MEGA+ (2)
- ☐ REFLEX DEMO+
- ☐ ALCATRAZ MEGA+ (3)
- ☐ VANGELIS DEMO+
- ☐ HOY AGA 1200
- ☐ GLOBAL TRASH+
- ☐ EURO TEENAGER+
- ☐ KEFRENS DESERT DREAMS+
- ☐ REBELS MEGA+
- ☐ 3D DEMO 2+
- ☐ MAYDAY+
- ☐ SPACEBALLS+Y

MUSIC
- ☐ AMIGADEUS+
- ☐ MED3.2+
- ☐ MED MODULES NO2+
- ☐ MUSIC MANIA +
- ☐ KT'S MUSIC DISK+Y
- ☐ MATHONY KAKTUS +
- ☐ REBELS MEGABLAST+
- ☐ DRUM LOOP SAMPLES+
- ☐ DAMOB 2+
- ☐ TECHNOTRONIC+
- ☐ EBM 93 DANCE 1+
- ☐ RAVE VISION (INTENSE)+
- ☐ 100C64 TUNES+
- ☐ JESUS ON E's+
- ☐ NOISEPLAYER 4+
- ☐ BRUNOS MUSIC BOX 2+
- ☐ PRO SOUND SAMPLES 1+
- ☐ KTsMODULES 1+Y
- ☐ KTs MODULES 4+Y

UTILITIES
- ☐ V MORPH +Y
- ☐ A GENE+Y
- ☐ ASI GFX UTILS +Y
- ☐ LITTLE OFFICE +Y
- ☐ DCOPY V3.1+Y
- ☐ 24 BIT UTILS+Y
- ☐ ENGINEERS KIT +Y
- ☐ PRINTSTUDIO +Y
- ☐ OPTICOMMS 2 +Y
- ☐ SUPERSOUND 2 +Y
- ☐ SID 2 +Y
- ☐ FREECOPY +Y
- ☐ STARCAT 2 +Y
- ☐ AMIGA BEGINNER +Y
- ☐ KICK 1.3 +Y
- ☐ 600 BUSINESS LETTERS+Y
- ☐ SPECTRA PAINT+
- ☐ EASYCALC+Y
- ☐ TEXT ENGINE +Y

ANIMS
- ☐ UNSPORTING+Y
- ☐ FILLET THE FISH+Y
- ☐ GULF WAR +Y
- ☐ AT THE MOVIES +
- ☐ PUGGS IN SPACE
- ☐ MAGICIAN 2 +Y
- ☐ AMY V WALKER +Y
- ☐ DOLPHIN DREAMS +Y
- ☐ STUNT COLLECTOR+
- ☐ BATMAN +Y
- ☐ SNOW JOKE+Y
- ☐ NIGHT BREED
- ☐ DEMOMAGA2 +Y
- ☐ WALKER ANIM+Y
- ☐ GYMNAST +Y
- ☐ JUGGLER +Y
- ☐ ATF AGILITY +Y
- ☐ GULF CONFLICT Y
- ☐ SCHWARTZ +Y
- ☐ ROAD HOG (2) +Y
- ☐ DAM BUSTERS +Y
- ☐ MR POTATO HEAD+Y

All Disks 80p each
Postage
UK orders 60. Europe +20per disk
World+ 40p per disk

100
Mega
Games
£10

HOW TO ORDER: Please make cheques payable with bankers card no. or postal orders to KTs P.D.(software) All orders sent First Class the same day.
FREE DISKS: Order any fifteen from above and choose two free

+Plus Compatible
Y 1200 Compatible
(*)No of disks .We stock CLR Collection, Fred Fish & Scope

Catalogue disk at 50p, or FREE with your first order
DEPT CU, 75 THE DRIVE, ROCHFORD, ESSEX SS4 1QQ Telephone 0702 542536 anytime

COMPUTER & *Design*
SERVICES

24 BLACKMOOR CROFT,
TILE CROSS,
BIRMINGHAM B33 0PE

Catalogue Disk £1.00. Disks are £1.50 each inc P&P. All PD, and coming soon – A.U.G.I.R. Beginners welcomed.

021 779 6368

Amiga-64-Link

- Links C64 peripherals to Amiga parallel port
- C64 Not required

Connects C64 printers to the Amiga

- Supports MPS, DPS, VIC, Star, Brother, Seikosha & Citizen printers
- Graphics output on dot-matrix printers
- Works with all software

Transfers C64 disk files to the Amiga

- File transfer programs
- Read/Write text, binary & program files

Standard	"Ami-64-Link"	£35.25
Budget	"Ami-64-Link"	£23.50

Prices include VAT and delivery
Budget stops multi-tasking during printing

York Electronic Research (0904) 610722
The Paddocks, Jockey Lane, Huntington, York Y03 9NE

SPREADSHEET HEAVEN

64
A500, A500+, A600, A1200 COMPATIBLE
AMIGA
ADVANTAGE
By Gold Disk
WORTH £45
PLUS
1Mb ONLY

Do you find that towards the end of each month, you are left with just five pence to feed and dress yourself with? Never mind because David Ward is here with the answer to all your financial worries – *Advantage*, the super spreadsheet package, which was given away free on one of last month's disks.

Normally, when you think in terms of the professional spreadsheet package, you might imagine huge machines whirring away, flashing up huge complicated equations as it deals in billions of pounds in the company's day-to-day business. However, in reality, this is not the case. Addition, subtraction, multiplication, and division are the order of the day. Some of the built-in financial equations are applied occasionally, but on the whole spreadsheet packages are only used to total large columns of figures.

So, if you are a home user dealing in pounds and pence, rather than millions, you don't need to be Einstein to organise your finances. So, let's look at some examples of how to use *Advantage* to your er... excuse the pun... advantage.

EXPENSIVE PASTIME

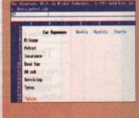
Periodically, the press publish figures for the running costs of family cars. These can be taken at face value, but wouldn't it be nice to work out the costs yourself? Well, now you can if you set up your spreadsheet in the following way. Firstly, we need a title. ' Car expenses' sounds nice and this' is inserted into cell B2. To make it stand out I boldened it by selecting the cell and choosing 'Format/Style/Bold' from the menu bar.

Next, we need three columns headed ' Weekly', ' Monthly', and ' Yearly'. In column A, starting at cell A4, we need to enter labels for the individual costs.

The first label is for mileage. Since most cars are fitted with trip meters calibrated in miles it is a simple matter to record one week's motoring or you can get an annual mileage figure from two consecutive MOT certificates. The weekly mileage that is going to be entered in D4 is multiplied up by 52 for an annual figure. Therefore, the formula is D4*52 and the products of this formula are put in the cell F4. For the monthly value we calculate F4/12 and put this in cell E4.

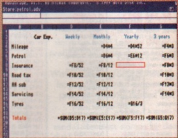
Weekly outlay for petrol is next. Using a similar technique to that for the mileage values, we need to enter a label and costs. Again, monthly and yearly values are calculated from the weekly figure.

Continue entering new rows for each expense. Insurance, road tax, servicing, tyres, and so on. See *Figure 1*. Don't worry about pound signs just yet. By calling up the preferences requestor and using the menu item 'Options/Preferences', I have asked *Advantage* to display only the formulae entered into the various cells. This is shown in *Figure 2*.


The Advantage, V1.1. by Michal Todorovic, © 1989 Gold Disk Inc.
Store:petrol.adv

	Car Expenses	Weekly	Monthly	Yearly
Mileage				
Petrol				
Insurance				
Road tax				
AA sub				
Servicing				
Tyres				
Totals				

Figure 1: Our 'Car Expenses' spreadsheet with the labels we are going to use.


Store:petrol.adv

	Car Exp.	Weekly	Monthly	Yearly	3 years
Mileage			=D4*4	=D4*52	=F4*3
Petrol			=D6*4	=E6*12	=F6*3
Insurance		=F8/52	=F8/12		=F8*3
Road tax		=F10/52	=F10/12		=F10*3
AA sub		=F12/52	=F12/12		=F12*3
Servicing		=F14/52	=F14/12		=F14*3
Tyres		=F16/52	=F16/12	=G16/3	
Totals		=SUM(D5:D17)	=SUM(E5:E17)	=SUM(F5:F17)	=SUM(G5:G17)

Figure 2: Once all formulae are inserted, you can check them if 'Show formulas' has been selected in the preferences requestor.

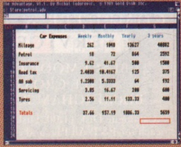
Blank cells are where our known values are going to be placed. In the weekly column there are places for mileage and petrol costs, while the column headed ' Yearly' has gaps for insurance, the AA subscription, servicing, and road tax.

You will notice that I have put an extra column labelled ' 3 years'. This is for those items that are replaced at longer intervals, namely tyres.

The final row ' Totals' has the formulae =SUM( ) entered at the bottom of each column. Click on the first cell that contains a monetary figure and drag the red box down to the cell just above total and *Advantage* automatically enters the range of that column into the formula box.

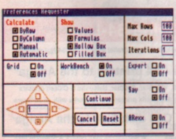
For instance, if we started with E4 and dragged down to E17, then E4:E17 would appear after =SUM(like this: =SUM(E4:E17. It is then just a matter of closing the bracket and pressing Return and the formula is entered.

Now we can enter the figures. As each number is put into its relevant cell the spreadsheet automatically updates the other cells linked to it via the formulae. When we have finished we should have a spreadsheet that looks like *Figure 3*. The labels have been changed using the 'Format/Pen Color'


The Advantage, V1.1. by Michal Todorovic, © 1989 Gold Disk Inc.
Store:petrol.adv

	Car Expenses	Weekly	Monthly	Yearly	3 years
Mileage		262	1048	13627	40882
Petrol		18	72	864	2592
Insurance		9.62	41.67	500	1500
Road tax		2.4038	10.4167	125	375
AA sub		1.2308	5.3333	64	192
Servicing		3.85	16.67	200	600
Tyres		2.56	11.11	133.33	400
Totals		37.66	157.19	1806.33	5659

Figure 3: Values can now be entered in general format.


Preferences Requester

Calculate
- ☒ ByRow
- ☐ ByColumn
- ☐ Manual
- ☒ Automatic

Show
- ☐ Values
- ☒ Formulas
- ☒ Hollow Box
- ☐ Filled Box

Max Rows: 100
Max Cols: 100
Iterations: 1

Grid ☐ On ☒ Off
WorkBench ☒ On ☐ Off
Expert ☐ On ☒ Off
Say ☐ On ☒ Off
ARexx ☒ On ☐ Off

The *Advantage* preferences requestor allows you to set up the number of rows and columns, the direction the cell indicator moves after pressing Return, and to turn off fail-safe requestors in expert mode.

by dragging out the current cell's red box to enclose those to be altered.

Now, if the currency symbol has been set in the tooltypes list of the *Advantage* icon, then we can change all the money values on the spreadsheet from general to currency format. Click on D6 and with the left mouse button held down, drag out the red box to encompass all monetary values – as in *Figure 4*. By selecting 'Options/ Currency' (*Figure 5*) all these values will be converted into pounds and pence (*Figure 6*). If you want an idea of the cost in terms of pence per mile, then it is a simple matter to enter a formula that will divide the total of one column by the mileage in that column, like '=D19/D4' in cell D21.

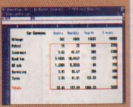


Figure 4: By selecting the top left hand cell, and dragging with the left mouse button held down, it is possible to select a range.

Unfortunately, all these results are approximations. Our weekly mileage varies. Petrol prices change monthly it seems and who knows what inflation and the government will do to our long-term figures.

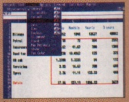


Figure 5: This time the 'Format/Currency' function of the menu bar is used to convert the selected range into pounds and pence.

Plus the fact that depreciation hasn't been taken into account as a running cost, which it is. No formula can ever work out depreciation on a car, no matter what some clever accountants might say. One make and model's value will plummet like a stone compared to a similar car from another manufacturer. New cars drop in value faster than those nearing the end of their lives, so we can deduce from this that depreciation operates logarithmically.

The method I would most likely use to approach this problem is; to work out how much money has to be put aside each week to replace the vehicle after three years. Let's assume that our brand new £10,000 car will depreciate by £1,500 in the first year, £1,000 in the second and £750 in the third. So, in year three it is worth £6,750. We have to assume that car prices are going to rise by 5% per year. Our £10, 000 car will then cost £11,500 in three years time. Thus the amount of money we put aside is 11,500-6,750=4,750, or roughly £30 per week. I am sure it's cheaper to use the bus!

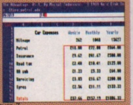


Figure 6: The finished spreadsheet for 'Car Expenses'.

A PENNY SAVED IS A PENNY EARNED

Using a similar method to the one above we can create a spreadsheet for the household budget. This is set out as in *Figure 7*, with the preferences set to show only the formulae for your information.

Column A has been set to a width of eight. It holds the labels for income and expenditure. The other columns have been set to a width of 15, mainly to show the full formulae that are entered into the cells.

Income is the amount of take-home pay per month. In this case, the employer pays a regular sum every four weeks which means that there are actually thirteen pay periods per year. This is represented by the formula '=C6*13' in the 'Yearly' column.

Rent, or it could be mortgage, is paid monthly, but this time in regular months, twelve times per year, unlike the Council Tax which is only paid ten times a year so there are periods when no payments are made. However, for our budgetary requirements we need to take into consideration all outgoings so, items like the Council Tax are calculated from the fixed monthly payment.

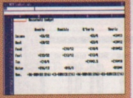


Figure 7: A spreadsheet prepared for home budgeting with all the formulae inserted.

The grocery bill is the only item worked out from a weekly basis, while water rates are calculated from the quarterly charge. You may have different outgoings and maybe even extra income therefore the spreadsheet would have to be adjusted for your own personal circumstances.

»

THE SOCCER EXPERT
Football Result Forecasting
MEGABYTE Amiga
Football ODDS & POOLS
☒ FOR FIXED ODDS & POOLS
Instantly updates all major English & Scottish league data from result information.
☒ THE INTELLIGENT WAY TO WIN
Interactive prediction system & statistics - help narrow those odds.
☒ HOME WIN? AWAY WIN? DRAW?
Gives a 'Certainty' value based on stored information. All easily accessed with superb flexibility & control.
☒ POINT AND CLICK USER INTERFACE
Database of 1993/94 fixtures, including results - up to date of despatch. Editable league tables and bookmakers' 'handicap' starting points.
VOITHIA SOFTWARE
"An Effective Researched & Designed Football Prediction System."
£16.95 inc. p&p
32b HIGH STREET, WELSHPOOL, POWYS, SY21 7JP U.K.
Rush me ☐ copy/copies of 'The Soccer Expert' at £16.95 each TODAY!
NAME: .... ADDRESS: ....
.... POST CODE: .... Please make cheques/ postal orders payable to VOITHIA. Orders normally despatched within 24 hours.

AMIGA REPAIRS
FIXED CHARGE ONLY £42.99 Incl.
FIXED CHARGE INCLUDES PARTS, LABOUR, DELIVERY, VAT
90 DAY WARRANTY ON ALL REPAIRS
24 HOUR TURN-AROUND ON 95% OF REPAIRS
ALL UPGRADES PURCHASED FROM US FITTED FREE WITH REPAIR
INCLUDES REPAIRS TO DRIVE & KEYBOARDS, ADD £10.00
IF NEED REPLACING, FULL DIAGNOSTIC TEST AND SERVICE
Est. 12 Years
In Stock SPECIAL OFFERS New Low Price
INTERNAL 3.5" DRIVE £38.99
Simple to fit, fully documented
ROM SWITCHER £14.95
Keyboard/mouse switched
KICKSTART 1.3 ROM £25.00
For software compatibility
KICKSTART 2.05 ROM £29.90
Upgrade to A500+ Rom
SUPER DENISE £28.70
Excellent value
68000 CPU £15.00
A500 MODULATOR £18.80
Exchange repair
A500 KEYBOARDS £44.10
Factory new, Genuine part
FATTER AGNUS 8372A £36.50
1 Meg chipram compatible
CIA IC £9.20
Printer, Serial, Drive ports
GARY IC £11.50
PAULA IC £19.95
A500 PSU £25.00
⚠ ATTENTION ALL DEALERS ⚠
Our company now offer the most competitive dealer repair service.
Full credit facilities available
Send for our Free information pack today...
We reserve the right to refuse repair for whatever reasons
Prices only valid with this coupon
CU 594
Service HOTLINE (0533) 470059
DART Computer Services
105 London Road
LEICESTER LE2 0PF
DART Computer Services

» The fuel bill is the total amount usually spent in a year on gas and electricity. It cannot be worked out from a quarterly charge as this varies with the time of year it occurs in. Winter bills are always higher than summer ones, so the four quarterly bills are totalled for each utility and the sum is placed in E12.

The last row, titled ' Rem.' is what is left over. It is the sum of the expenses subtracted from the income. Enter the amounts and watch *Advantage* calculate the answers (*Figure 8*). Select all the values and convert them to currency format like we did for the car expenses.

Now to make the outgoings stand out, select them and choose 'Format/Pen Color'. Up pops a palette requestor *(Figure 9)* and by picking red we can alter the colour of the expenses (*Figure 10*). I hope you did not get any negative values in your remainder (' Rem') row, as this is the money left over for clothes, holidays, and entertainment.

In my example, I left out the car expenses figures we obtained earlier. If they were included then the remainder figure per week would drop to £33. And if the amount of money needed to be put aside to replace the car after three years was added, then I would only have £3 left for luxuries.

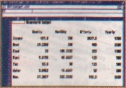


Figure 8: With the values entered into the blank spaces *Advantage* automatically calculates the results for each formula.

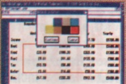


Figure 9: Outgoings are best seen as red numbers, so using the 'Options/Pen Colour' menu item to call up a palette of ink colours, a selected range can be changed very easily.

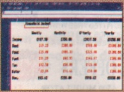


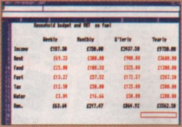
Figure 10: Voila, here we have red numbers.

This indicates that I should think about buying and running a cheaper car. One that is more in line with my current salary. Oh, by the way, these figures bare no relation to my true income and expenditure. I earn a whole lot more. (I wish).

VAT AND ALL THAT

With Government considering the imposition of VAT on domestic fuel bills, I think we ought to see the effect it has on our household budget. By simply altering the contents of E12 from '500' to '=500*1.175' we get the fuel bill plus VAT, and budget amounts altered accordingly. What we have done is to change the value into a formula by placing an equals sign in front. Now we can multiply this by the percentage increase caused by the current rate of VAT at 17.5%. 1.175 is reached by adding 100, to get 117.5, and then dividing by 100. Multiply this by the amount that is to have VAT added to it and bob's your uncle.

Figure 11 shows the amended spreadsheet.



Household budget and VAT on fuel

	Weekly	Monthly	Q'terly	Yearly
Income	£187.50	£750.00	£2437.50	£9750.00
Rent	£69.23	£300.00	£900.00	£3600.00
Food	£25.00	£108.33	£325.00	£1300.00
Fuel	£13.27	£57.52	£172.57	£587.50
Tax	£12.50	£50.00	£125.00	£500.00
Water	£3.84	£16.66	£50.00	£200.00
Rem.	£63.64	£217.47	£864.92	£3562.50

Figure 11: **Add VAT to our fuel bill and see the difference.**

The fuel bill increases by £87.50 per year. Not a pretty sight for those who will not see an increase in their yearly income.

STOCK CONTROL

Another area where VAT could apply is the small businessman's stock. *Figure 12* shows such a spreadsheet. It is a portion of a much larger stock list. Here we have stock numbers for each item, a limited description, a VAT rating, wholesale cost, quantity in stock and the retail price including VAT.

At the bottom of the spreadsheet is a total for the number of items in stock and the stock's value. The built-in formula '=SUM()' is used for these columns. The retail price column has a more complicated formula as it is dependent on the VAT rating in column C.

Books are currently zero rated, while everything else in this list has 17.5% added to it. What we need is a formula that can tell whether something is zero rated or not. This is where the logic (Boolean) functions come into play. *Advantage* has 'IF(TRUE/FALSE,TRUE EXP.,FALSE EXP.)' as one of its logic functions. In simple terms this means that if something works out as true then use the true expression. If false use the other one. Our formula is 'IF(C5=1, D5*1. 3*1.175,D5*1.3)'. So if C5 contains a 1 then take the cost of the item and multiply by 1.3, our 30% profit margin, and again by 1.175, the VAT rate. If C5 does not contain 1 then just multiply the wholesale price by 1.3. Either result is placed in G5.

Such a long formula would be tiresome to enter by hand all down the column. So, after the first time it is entered, reselect it, and choose 'Edit/Copy'. Now drag the red box down to the bottom of the column, not down to the totals row, and choose 'Edit/Fill/Down'.

Advantage automatically fills the rest of the column with the formula adjusted for its new position. If you try to set up a spreadsheet similar to *Figure 12* you may find that none of the columns line up as neatly as in the example. The trick is to make use of the menu bar's 'Options/Column Width' and 'Format/Alignment' features.

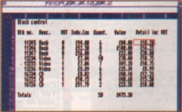


Figure 12: **Sales and deliveries can be entered for up-to-date information on the value and quantities of stock held.**

Cash values need to be right justified, which they are when currency format is chosen, but the VAT rate code, label text, and quantities should really be centre justified for tidiness.

When all is done you can print out the result. Some users swear by their spreadsheet program for printing rows and columns of figures for inclusion in reports, as they find the output easier to put together than with a word processor.

IN THE BLACK

Finally home accounts, that old favourite. This requires four columns: a description of the transaction, credit, debit, and balance (*see Figure 13*). Using this layout we can keep a track of where money comes from and goes to. There is only one formula used. It appears in the balance column cells, and is complex yet simple.

Here we want to show any negative balance in an outstanding manner. To do this we need to use a logic formula that includes colour information for the spreadsheet. Its form is '=F5+D6-E6 +(0*COLOR (F5+D6-E6>=0,6,7))', and it appears in cell F6. F5 holds our previous balance. Column D holds the credits, while column E is for debits.

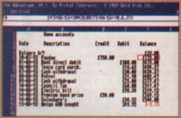


Figure 13: **The bank balance-style spreadsheet tells when that last minute purchase pushes you into the red.**

The formula takes the value in the cell above it in column F, adds a credit or subtracts a debit, and then uses the same formula again within the brackets to find out whether the final result is either positive or negative.

The function COLOR (expression,color1,color2) works on a true/false principle. In our case if the value worked out by the formula is greater than zero, color1 is used as the pen colour for that cell. If less than zero, color2 is used.

Black ink is represented by a 6, and red by a 7 in this set-up. If you change the palette these colours will vary. Since the Color ID returned is a number it must be multiplied by zero so that it does not have an effect on the calculated result.

Unlike our previous spreadsheets where we knew how many rows were required, our home accounts could have numerous entries. It is not a good idea to use 'Fill/Down' to copy the formula down the page. We would end up with an unsightly column of extraneous figures.

The best thing to do is select the last used cell in F and choose 'Edit/Copy'. Then move the red box down to the next empty cell in F and use 'Edit/Paste/Relative'. This will insert a suitably modified formula into the cell. Continue doing this each time a new row is used.

Finally a tip: as we are only using a few columns, it might be an idea to set the row and column gadgets in preferences to give a thin long spreadsheet, say 200x10 rather than the default 100x100. This helps memory conservation. CU

DON'T FORGET

Some people may have experienced problems using last issue's Advantage giveaway. All text for spreadsheet labels should have a space preceeding the cell name. The leading space is important as it is Advantage's way of distinguishing a label from a formula (which starts with an equals sign) or a number.

CITIZEN PRINTERS
FROM SILICA SYSTEMS

- **FREE DELIVERY** Next Day - Anywhere in the UK mainland
- **WINDOWS 3.1** Free Windows 3.1 driver with Starter Kit
- **2 YEAR WARRANTY** (including the dot matrix printer head)
- **FREE HELPLINE** Technical support during office hours
- **FREE STARTER KIT** With Citizen dot matrix printers from Silica

200 SHEETS PRINTER PACK

FREE! STARTER KIT WORTH £57.58 INC VAT

FREE STARTER KIT INCLUDES:
- 3½" Disk with Amiga Print Manager
- 3½" Disk with Windows 3.1 Driver
- 1.8 Metre Parallel Printer Cable
- 200 Sheets of Continuous Paper
- 100 Continuous Tractor Feed Address Labels
- 5 Continuous Envelopes on Tractor Feed

AMIGA PRINT MANAGER V2.01
For faster printing from your Amiga, with clearer images and more vibrant colours. Available free of charge as part of the Silica Printer Starter Kit.
Features include:
- Improved Image Smoothing
- Image Scaling
- Gamma/Colour Correction
- Colour Separation
- Reduces/Eliminates Banding

KIT VALUE £49 + VAT

PERIPHERALS & ACCESSORIES

EXCLUSIVE OFFER

CITIZEN SHEET FEEDER

For Swift 9, 90, 24, 24e, 200, 240, 224

Semi-Automatic Cut Sheet Feeder for smooth trouble free paper handling. Requires manual sheet injection using lever.

RRP ~~£40~~ INC

£19.95 +VAT= £23.44 - PRA 1229

SHEET FEEDERS

PRA 1200	120D+	£71.38
PRA 1222	124D/224/Swift 80 Col Printers	£88.13

SERIAL INTERFACES

PRA 1189	120D+	£56.45
PRA 1209	Swift 9/9x/124D/224	£32.25
PRA 1709	Swift 24/24x/24e/200/240	£26.38

32K MEMORY EXPN

PRA 1753	224/Swift 24/24x/24e	£14.45

PRINTER STAND

PRA 1242	Swift 9, 90, 24, 24e, 200, 240, 224	£22.33
PRA 1274	Swift 9X/24X/200/240	£34.95

ORIGINAL RIBBONS

RIB 3520	120D/Swift 9/90 Black	£2.91
RIB 3949	Swift 9x Black	£7.15
RIB 3924	124D/Swift 24/200/240 Black	£4.20
RIB 3936	224/Swift 9/90/24/200/240 Col	£15.63
RIB 3248	PN48 Single Strike	£3.61
RIB 3348	PN48 Multi Strike	£3.61

COLOUR KITS

PRA 1236	224/Swift 9/90/24e/200/240	£35.25
PRA 1240	Swift 9x/24x	£45.25

PN48 ACCESSORIES

PRA 1148	PN48 Battery	£46.70
PRA 1155	PN48 Cable Extn	£29.37
PRA 1162	PN48 Car Adaptor	£18.74

INKJET 360 CPS 80 COLUMN

- Citizen Projet inkjet - 80 column
- 360cps Draft, 120cps NLQ
- 50 Nozzle Head - Whisper Quiet 47dB(A)
- 8K Printer Buffer
- RAM Card Options
- 3 Fonts Built-in
- Optional HP Compatible Font Cards
- Parallel and Serial Interface
- Graphics Resolution: 300 x 300dpi
- HP Deskjet Plus Emulation
- 2 Year Warranty

2 YEAR WARRANTY
NEW LOW PRICE!
FREE DELIVERY

RRP	£496
TOTAL VALUE:	£496
SAVING:	£217
SILICA PRICE:	£279

£279 +VAT=£327.83 - PRI 2090

CITIZEN PRINTERS
WITH 2 YEAR WARRANTY

24 PIN 270 CPS 80 COLUMN

2 YEAR WARRANTY
COLOUR KIT OPTIONAL EXTRA
CITIZEN Swift 200
FREE! STARTER KIT WORTH £49 SEE LEFT
FREE DELIVERY

SWIFT 200

- Citizen Swift 200 - 24 pin - 80 column
- 270cps SD (15cpi), 216 cps Draft, 72cps LQ
- 8K Printer Buffer (40K max) + 7 LQ Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360 dpi
- Epson, IBM, & NEC P20 Emulations
- Quarter Printing and Auto Set Facility
- Ultra Quiet Mode - 43dB(A)
- Colour Kit - Optional Extra (See Left)
- FREE Silica Printer Starter Kit

RRP	£259
SILICA STARTER KIT	£49
TOTAL VALUE:	£308
SAVING:	£123
SILICA PRICE:	£185

£185 +VAT=£217.38 - PRI 2490

9 PIN 144 CPS 80 COLUMN

2 YEAR WARRANTY
CITIZEN 120D+
FREE! STARTER KIT WORTH £49 SEE LEFT
FREE DELIVERY

CITIZEN 120D+

- Citizen 120D+ - 9 pin - 80 column
- 144cps Draft, 30cps NLQ
- 4K Printer Buffer + 2 Fonts
- Parallel or Serial Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Pull tractor & bottom feed
- FREE Silica Printer Starter Kit

RRP	£199
SILICA STARTER KIT	£49
TOTAL VALUE:	£248
SAVING:	£133
SILICA PRICE:	£115

The Citizen 120D printer comes supplied with a parallel interface as standard. If you require a serial interface instead, please state ref: PRI 2125 when placing your order with Silica.

£115 +VAT=£135.13 - PRI 2120

24 PIN 300 CPS 80 COLUMN

2 YEAR WARRANTY
CITIZEN Swift 240
FREE! Pen Pal v1.5 or Windows Enhancement Software From CITIZEN Worth Up To £49.95
FREE! STARTER KIT WORTH £49 SEE ABOVE
FREE DELIVERY
COLOUR VERSION AVAILABLE

- Citizen Swift 240/240C - 24 pin - 80 column
- 300cps SD (15cpi), 240 cps Draft, 80cps LQ
- 8K Printer Buffer - 40K maximum
- 9 LQ Fonts + 2 Scalable Fonts (8-40pt)
- Font Cartridge Slot - for plug in 'style' fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM, NEC P20 & CEL Emulations
- Quarter Printing Facility
- Auto Set Facility - Bi-directional I/F, Auto Emulation Detection
- Ultra Quiet Mode - 43dB(A)
- Colour Printing Standard - Swift 240c, Colour Printing Optional - Swift 240
- FREE Silica Printer Starter Kit

SWIFT 240 MONO

RRP	£339
STARTER KIT	£49
TOTAL VALUE:	£388
SAVING:	£149
SILICA PRICE:	£239

£239 +VAT=£280.83 - PRI 2560

SWIFT 240C COLOUR

RRP	£359
STARTER KIT	£49
TOTAL VALUE:	£408
SAVING:	£149
SILICA PRICE:	£259

£259 +VAT=£304.33 - PRI 2571

9 PIN 240 CPS 80 COLUMN

NEW!

2 YEAR WARRANTY
COLOUR VERSION AVAILABLE
CITIZEN SWIFT 90
FREE! STARTER KIT WORTH £49 SEE ABOVE
FREE DELIVERY

- Citizen Swift 90 - 9 pin - 80 column
- 240cps SD (10cpi) 192cps Draft, 48cps NLQ
- 8K Printer Buffer
- 6 Fonts Built-in
- Parallel Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Auto Set Facility
- Ultra Quiet Mode - 45dB(A)
- Advanced Paper Handling
- Colour Printing Standard - Swift 90c Colour Printing Optional - Swift 90
- FREE Silica Printer Starter Kit

SWIFT 90 MONO

RRP	£199
STARTER KIT	£49
TOTAL VALUE:	£248
SAVING:	£99
SILICA PRICE:	£149

£149 +VAT=£175.08 - PRI 2290

SWIFT 90C COLOUR

RRP	£219
STARTER KIT	£49
TOTAL VALUE:	£268
SAVING:	£99
SILICA PRICE:	£169

£169 +VAT=£198.58 - PRI 2297

24 PIN 192 CPS 136 COLUMN

- Citizen Swift 24x - 24 pin - 136 col
- 192cps Draft, 64cps NLQ
- 8K Printer Buffer + 4 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM and NEC P6 Emulation
- Colour Option Available
- FREE Silica Printer Starter Kit

RRP	£489
SILICA STARTER KIT	£49
TOTAL VALUE:	£538
SAVING:	£229
SILICA PRICE:	£309

£309 +VAT=£363.08 - PRI 2574

2 YEAR W'TEE
CITIZEN SWIFT 24X
FREE! STARTER KIT WORTH £49
FREE DELIVERY

THERMAL 64 CPS 80 COLUMN

- Citizen PN48 Notebook Printer
- Non-impact Printing on Plain Paper
- 53cps LQ - 4K Buffer + 2 Fonts
- Rear and Bottom Paper Loading
- Parallel Interface
- Graphics Res: 360 x 360dpi
- Epson, IBM, NEC P6 & Citizen Emulation
- Power: Mains, Battery or Car Adaptor

RRP	£325
TOTAL VALUE:	£325
SAVING:	£126
SILICA PRICE:	£199

£199 +VAT=£233.83 - PRI 2100

2 YEAR W'TEE
CITIZEN PN 48
NEW LOW PRICE!
FREE DELIVERY

230693-1630

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 14 YEARS:** Proven track record in professional computer sales.
- **£12 MILLION TURNOVER (with 60 staff):** Solid, reliable and profitable.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available **081-308 0888.**
- **SHOWROOMS:** Demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers + software and peripheral details.
- **PAYMENT:** Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE 081-309 1111

SILICA SYSTEMS

SILICA IS A DIVISION OF PRODIS PLC

MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-323 4737

LONDON SHOP: Selfridges (Basement Arena), Oxford Street, London, W1A 1AB Tel: 071-629 1234
Opening Hours: Mon-Sat 9.30am-7.00pm Late Night: Thursday - 8pm Extension: 3914

SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday - 7pm Fax No: 081-309 0017

ESSEX SHOP: Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Tel: 0702 468039
Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm) Late Night: Thursday - 7pm Fax No: 0702 468039

To: Silica Systems, CMUSR-1093-55, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A BROCHURE ON THE CITIZEN RANGE

Mr/Mrs/Ms: .... Initials: .... Surname: .... Date: ....

Company Name (if applicable): ....

Address: ....

....

.... Postcode: ....

Tel (Home): .... Tel (Work): ....

Which computer(s), if any, do you own? 55V

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

DIGITALLY MASTERED SAMPLES

IFF SOUND SAMPLE LIBRARIES

Each disk is compiled from a **studio quality master** and is sampled on the Amiga at **twice the sample rate** of P.D. sample disks. They are compatible with all P.D. and commercial tracker and sequencer programs. N.B. no. of samples in brackets.

001 AFRICAN : Talking drums, Marimbas, chants etc. (53)
002 INDIAN INST : Sitars, Bansuri, Chants etc. (19)
003 INDIAN PERC : Tablas, Bayas, Rhythm Loops etc. (35)
004 ARABIC : Ud, Saz, Bendir, Rhythm Loops etc. (37)
005 FAR EAST : Tibetan Bells, Yangqin, Koto etc. (31)
006 EUROPEAN : Balalaika, Choirs, Bodhran etc. (34)
007 OCEANIA : Didjeridu, Chants, Slit Drum etc. (23)
008 AMERICAS : Kena, Berimbau, PanPipes etc. (30)
009 FX PERC. : Power Toms,Snares & Bass,Scratch & Rap. (88)
010 DRUM KIT : Bass&Snares,Hi-Hats,Cymbals&Toms (63)
011 ANALOG PERC. : TR-808, CR-78, Loops etc. (64)
012 LATIN PERC. : Timbales, Congas, Cabasas, Cowbells etc. (107)
013 GUITARS : Acoustic, Electric & Distorted etc. (41)
014 BASS GUITARS: Slap, picked, fretless, FX, etc. (44)
015 ANALOG BASS : Oberheim, Roland,Korg, etc.(22)
016 DIGITAL BASS : Yamaha DX, Roland, Korg, etc. (28)
017 BRASS : Sections, Saxes, Trumpets, etc. (24)
018 SYNTH BRASS : Analog, Digital &L.A, etc. (18)
019 PIANOS : Octave Splits, with strings,FX (16)
020 STRINGS : Cello, Orch. Hits, Sections, etc. (21)
021 SYNTH STRINGS : Analog & Digital (19)
022 CHOIRS : Mixed choirs, with bells & synth (16)
023 ORGANS : Church & Electric (17)
024 BELLS : Real & Synth, with Choir & Strings (20)
025 SOUND FX : Action Sounds, Explosions, Gunshots, etc. (30)

Each Disk is priced at £2.50, any 10 for £19.95, the Complete Collection for £49.95. In addition, Sampler owners can use our **Digitally Mastered** Chrome, Metal, or DAT **sample Cassettes** which contain most of the above samples: COO1 **WORLD MUSIC COLLECTION** (175)
C002 **PERCUSSION COLLECTION** (228)
COO3 **GUITARS AND BASSES** (161)
Each Chrome: £9.95, Metal: £11.95, DAT: £16.95.
The Three collection Package is priced at:
£21.95 (Chrome), £25.95 (Metal), £38.95 (DAT)

P&P £1 (any order) Cheques & P.O.s to :
WALKABOUT MUSIC (Dept. CU)
TRENOVISSICK FARM,THE MOUNT, PAR,
CORNWALL PL24 2DA
Tel: (0726) 813807

Amivision Software present

FORMULA ONE CHALLENGE v4

An incredibly addictive and detailed formula one simulation for 1-4 players.

Watch the races as they unfold with three levels of highlights. Crashes, spins, pile ups, car failures, stop/go penalties, weather changes, fastest and record laps, make pitstops. Four independant levels of difficulty. Accurate and detailed graphics of the teams, circuits etc.

15 teams, 2 cars per team, 50 drivers with varying skills, complete engine & tyre contracts. Choose tyre compounds, tune your engines, change wing settings, even train your pit crew! Qualifying, 16 accurate championship circuits, news section, realistic sound fx, load/save games, weather forcasts, statistics saved, latest FISA rules, sponsors, full drivers and constructors championships and so much more.

Includes full 1993 season. Details can easily be updated each year.
Incredibly addictive, produced by true formula one fans.
The most realistic formula one management simulation, guaranteed.

Just £14.95!
Includes instruction manual

DEMO DISK £1
A1200 COMPATIBLE

Please make cheque/Postal Order payable to: S. Rennocks

Dept CU, 1 Cherrington Drive, Great Wyrley, Walsall, WS6 6NE

All PD 35p each!

Great products
Great prices
Great service

CD's from £4.95!

Redlaw PD Resources

A500/A500+/A600/A1200

On PD we have Fred Fish, T-Bag, Assassins, LSD Tools, Animations, Demos, Utils, Games, Mags etc!

3.5" full-size disk labels, pack 100	£1.95	Twin mouse/joystick extension	£4.95
Mouse mats, 6mm thick, value	£2.95	4-player extension lead	£4.95
Mouse mats, 11mm thick, luxury	£3.45	Mouse/joystick switcher box	£9.95
A500/A500+ dust cover, protects	£2.95	Disk drive head cleaning kit	£2.45
A600 dust cover, protection	£3.25	100 capacity 3.5" disk box	£8.95
A1200 dust cover, protection	£3.45	Zipstick Super Pro autofire	£12.95

The new Amiga 32-bit CD-ROM console, superb machine, only £279.00

CD-ROM drive for A500Plus, free Fred Fish 1-660 & Sim City CDs! £144.95
CDPD II Collection, Fred Fish to 740, entire NASA AB-20 & JAMDISK! £18.95
CDPD III Collection, Fred Fish to 880 plus lots more great stuff on disk £18.95
DEMO CD, PD games, animations, demos, & 1000+ music modules! £18.95
DEMO CD II, yet more PD delights on CD for you. Still priced at a mere £18.95
17-bit Collection CD, over 1600 of the best in PD games, demos, utilities, pics etc, on 2 brilliant CD's. An instant PD library for a very small outlay! £35.95
Pandora's CD, 2000 colour clip-art pics, sound FX & multi-media demos! £4.95

Games available on CD for all CD drives at cut prices! Ask for the free CD price list. Free PD catalogue disk with 4000+ PD available by whipping 3 stamps to us now!

Send cheque/PO to: REDLAW RESOURCES, 74 Durban Road, Patchway, Bristol BS12 5HQ Tel: (0272) 760600

Add 50p postage

LOWEST PRICED TOP QUALITY RIBBONS

	1 off	2+	5+
Amstrad DMP 2000/3000	2.80	2.65	2.45
Amstrad DMP 4000	3.66	3.51	3.31
Citizen 120D/LSP10/ Swift 24/9	2.85	2.70	2.50
Citizen Swift 24 Colour	12.81	12.66	12.46
Commodore MPS 1220/1230	4.50	4.35	4.15
Epson LQ400/500/800/850	3.45	3.30	3.10
Epson FX/MX/RX80/FX/LX800	2.90	2.75	2.55
Epson FX/MX/RX100/FX/MX1000	3.36	3.21	3.01
Epson LX80/86/90	2.12	1.97	1.77
NEC Pinwriter P2200	3.03	2.88	2.68
Panasonic KXP1123/1124/1140	3.46	3.31	3.11
Panasonic KXP1080/1180/90/1592	2.89	2.74	2.54

	1 off	2+	5+
Star LC10/20 Black	2.29	2.14	1.94
Star LC10/20 Colour	6.00	5.85	5.65
Star LC200 Black	3.00	2.85	2.65
Star LC200 Colour	9.78	9.63	9.43
Star LC24-10/200 Black	2.86	2.71	2.51
Star LC24-10/200 Colour	9.63	9.48	9.28
Canon BJ-10 Inkjet Cartridge	Original 17.54 each		
HP Deskjet Cart. (Double Cap)	Original 24.24 each		
Canon BJ-10 Refill (Twin Pack)	11.00	10.60	9.95
HP Deskjet Refill (Twin Pack)	11.00	10.60	9.95

Ring for ribbons, inkjet cartridges and inkjet refills not listed

Ring us and we will beat all other prices

0543 250377 Ring us or send cheques to: **0543 250377**
Owl Associates, Dept 119, Owl House,
5 The Brambles, Lichfield, Staffs WS14 9SE
ALL PRICES INCLUDE VAT & DELIVERY
E & OE

---

kosmos educational software

the connoisseur's choice

Our extensive range of educational subjects now include:

○ MATHS ○ GEOGRAPHY ○ SPORT ○
○ FRENCH ○ HISTORY ○ FIRST AID ○
○ GERMAN ○ ENGLISH WORDS ○ GENERAL KNOWLEDGE ○
○ SPANISH ○ SPELLING ○ ENGLAND ○
○ ITALIAN ○ ARITHMETIC ○ SCOTLAND ○
○ SCIENCE ○ FOOTBALL ○ NATURAL HISTORY ○

Write or phone for our FREE 16-page colour catalogue of Educational & Leisure Software (State computer type) to:

Kosmos Software Ltd, FREEPOST (no.stamp needed)
DUNSTABLE, Beds. LU5 6BR
Telephone 0525 873942 or 875406

Access KOSMOS SOFTWARE VISA

!!..48 hour mail order service..!!..48 hour mail order service..!!

BUILD MUSCLES FAST!

You can build a fantastic power packed body in only 12 weeks

NEW! Fastest and best way to build muscles and strength without weights - EVER! Just 20 minutes daily in the privacy of your home will develop an amazing physique.

MUSCLE DYNAMICS is a new body-building system based on principles developed after years of exhaustive research. It is a total exercise programme involving the very latest scientific breakthroughs in the field of muscular development. It is the fastest, most effective way to build muscles in existence

Noticeable results in 28 days guaranteed.

Send for FREE Information Pack.

MUSCLE DYNAMICS,P.O. BOX 70, DOUGLAS, IM99 1EH.
Tel: 0624 801023 (24 hrs)

MUSCLE DYNAMICS,P.O. BOX 70, DOUGLAS, IM99 1EH
Yes! I want to build muscles fast. Please rush me a FREE information pack!

Name..........BLOCK
Address..........CAPITALS
..........PLEASE
.... **Postcode** ....
(A stamp for reply appreciated)

ANALOGIC
ANALOGIC
ANALOGIC

Analogic Computers (UK) Ltd
Unit 6, Ashway Centre,
Elm Crescent
Kingston-upon-Thames
Surrey KT2 6HH

Telephone Mon-Fri 9am-6.30pm
Sat 9am-5.00pm
081-546 9575
Tel/Fax: : 081-541 4671

COMPUTERS AND MONITORS REPAIRS WHILE-U-WAIT!!!

- * AMIGA A500 & MONITOR REPAIRS WITHOUT DIAGNOSTIC FEES
- * FIXED CHARGES (A500 ONLY)
- * FAST TURNAROUND
- * MANY REPAIRS DONE WHILE-U-WAIT
- * WE PROVIDE PICK-UP SERVICE FOR REPAIRS FOR ONLY £5.00 + VAT
- * QUOTATION ON MONITOR REPAIRS
- * 10 UNBRANDED BLANK DISKS £5.95

£49.95 (A500 ONLY)
including NEXT DAY
DELIVERY by COURIER SERVICE
when dispatched back

COMPUTERS

A1200	POA
A1200 + HD	POA

MONITORS

CM 8833 II	POA

FLOPPY DRIVES

1 Meg 3.5" internal	£49.95
1 Meg 3.5" external	£59.95

ACCESSORIES

Amiga 512K RAM +clock	£24.95
Amiga Plus 512K RAM	£34.95
Amiga Plus 1 Meg	£49.95
Amiga/Atari Squik Mouse	£14.95
Amiga Scart Cable	£14.95
Rom Sharer	£19.95
Mouse Mat	£4.95
Dust Cover	£4.95
Super Pro Zipstick	£14.95
Amiga Power Supply	£44.95
10 Sony Blank Disks	£9.95

Access

★ All prices include VAT and **NEXT DAY DELIVERY** subject to availability ★ Fixed charge for repair does not include disk drive replacement nor keyboard
★ All prices subject to change without notice ★ We reserve the right to refuse any Amiga repair

VISA

South Lincs PD

1-9 disks £1 each
10-19 disks 85p
20+ disks 80p
add 75p for P&P per order

Large selection of Amiga PD (over 2,000 disks) including: Games, Graphics and Animation, Utilities, Music, Demos, T-Bag, Fred Fish Disks 1-870, Assassins Games Disks 1-96. Below is a selection of titles available

GAMES

1059 Tile Trial* (P)
1066 Kingdom at War* (P)
1067 Intact (Shoot'em up) (P)
1082 Quik & Silva (Platform)
1111 Pom Pom Gunner (P)
1119 Startrek (2D) (P)
1128 Storyland 2 (P)
1136 Colour It 1.3 (P)
1151 Othello & Card Sharp (P)
1158 No Mans Land (2 Player War) (P)
1157 Total War (Risk) (W/B) (P)
1163 Battle Cars 2* (P)
1166 Texas Chainsaw Massacre (P)
1167 Amos Cricket (P)
1189 Nu (Difficult Shoot'em up) (P)
1192 Last Refuge* (P)
1193 Intrepid (P)
1194 Formula 1 Challenge V3 (P)
1197 Moria V5.4* (Roleplay) (P)
1200 Tetren (Tetris) (P)
1201 Top of the League (P)
1203 Cheat List V2.01 (P)
1206 Fruit Salad (Platform) (P)
1209 18th Hole* (2D) (P)
1210 Cash Fruit (P)
1214 Dungeon Delver (2D) (P)
1215 Grand Prix Manager (1993) (P)
1216 Skidmarks (P)
1217 Serious Backgammon Demo (P)
1218 Olempiad 92 (2D) (P)

LATEST ASSASSIN GAMES

ASI71 Numerixs, Battleship, Vs Tanks
ASI72 Escape Pre, Boulderdash, Cars II
ASI73 Lexess, Concent'n, Challenger
ASI74 Crazy Pipes 2, Bombjacky, Chute
ASI75 Double-Squares, Colours etc.
ASI76 Gnu Chess, Cubus, Gerb
ASI77 Balloonacy, Cliff Hanger etc.
ASI78 Little Boulder, Headgames etc.
ASI79 Grav Attack, VektorStorm, Atom
ASI80 Army Miner, Flip It, Golf etc.
ASI81 Amos Defence, ThunderTron etc.
ASI82 Artillerus, Arcade Volleyball etc.
ASI83 Loadsamoney, Pong, Spider
ASI84 Enigma, Atishoo, Zerbeck
ASI85 Paradox Pre, Matchcards etc.
ASI86 Smurfhunt, Lord of Host, Lothian
ASI87 AztecChallenge, Landmines etc.
ASI88 Defender, Relayer, Mosaic
ASI89 Megaball 2.1, Xfire, Cluedo
ASI90 Flashbier, Startans, Minefield
ASI91 Roton, Matrix, Spectrum
ASI92 Bill, Oblidox, Soltaire Sampler
ASI93 Mr Munk, Alien Bash etc.
ASI94 Super Skoda Challenge, Giddy etc

MUSIC AND SOUND

5006 Bad (Michael Jackson) (P)
5017 Pure Metal
5021 Vangelis* (P)
5045 Iron Maiden (P)
5050 Guns & Roses* (Your Crazy) (P)
5067 The Meaning of Life* (2D) (P)
5072 Van Halen (Eruption) (P)
5073 I'm Too Sexy (RSF) (2D) (P)
5074 Crystal Symphonies (P)
5075 Bad Boyz* (Rave) (P)
5081 Banging Raves 1
5082 Banging Raves 2
5083 500 Things (P)
5091 The Four Seasons (2D) (P)
5096 Ultimate Dance (P)
5097 2 Unlimited* (Not 1.3) (P)
5098 Phorever People Remix* (P)
5099 1992 Dance Remix* (Not 1.3) (P)
5105 Total Kaos (LSD) (2D) (P)
5109 Get Ready For This* (P)
5110 Dance Trance (P)
5113 Took My Love* (Not 1.3) (P)
5114 1993 Dance Vol 1* (Not 1.3) (P)
5115 500 Things 2

DEMOS

6059 Indianapolis 500 Demo (P)
6063 Thames TV Demo (P)
6065 Pink Floyd The Wall* (6D)
6067 Singing Toilets (P)
6072 Ray of Hope 2
6073 Alpha Omega (P)
6075 Odyssey (5D) (P)
6078 Voyage (P)
6088 Hardwired (2D)
6090 Cat Computer Club (P)
6095 Jesus on E's (2D) (2 Drives) (P)
6096 State of the Art (P)
6097 In the Kitchen (P)
6098 Sanity World Of Commodore (P)
6100 XPose (2D) (P)
6101 TimeZone (2D) (TRSI) (P)
6102 Wicked Sensation (2D) (P)
6103 Alpha & Omega II (3D) (P)

GRAPHICS AND ANIMATION

2040 Tron* (Light Cycle Duel) (P)
2077 Rock Album Slideshow (P)
2083 Life's a Bitch (Anim) (18) (P)
2150 The Wendy James Slideshow (P)
2158 Aliens Slideshow (18)
2162 At the Movies 2* (4D) (P)
2163 Amy V's Walker 2 (2Mb) (2D) (P)
2164 Girls of Sport Slideshow (P)
2170 Red Drawf (2D)
2180 Gulf Conflict (2Mb) (W/B) (P)
2181 At the Beech (3Mb) (2D) (P)
2183 Jet Anim* (P)
2193 6 Of 1 (Prisoner Slideshow) (P)
2196 Four-Stroke Engine* (P)
2198 Sweet Revenge (1.5Mb) (P)
2199 The Art of Tobias Richter (2D) (P)
2206 Unsporting (W/B) (2Mb) (P)
2209 Small Station at Kram* (P)
2213 Planetside* (Anim) (P)
2217 Perils of the Deep* (2D)
2230 Unpleasant Ways to Die (P)
2231 RDF Shuttle Slideshow (P)
2234 Cry for Dawn Slideshow (P)
2248 Automated Light (3Mb) (4D) (P)
2256 Maggie 2 Pancake Day (P)
2257 Dolphin Dream (P)
2258 Back from the Beech (1.5Mb) (P)
2261 The Circus Act* (2D)
2262 Mayhem on Wheels 3* (Anim) (P)
2263 Kick Boxer* (Anim)
2268 Invisible World 2 (P)
2269 Kingfisher 1* (Anim) (P)
2270 Kingfisher 2* (Anim) (P)
2277 Olympic Cyclist* (P)
2278 2001 A Space Odyssey (1.5Mb) (P)
2279 Saving Cert Advert* (Anim) (P)
2281 Speed Limit (1.5Mb) (3D) (P)
2283 Two Stroke Engine Animation (P)
2284 Steam Engine Anim V2* (P)
2286 Fantavision Anims (Dinosaurs)* (P)
2290 Snow Joke (2Mb) (2D) (P)
2292 The Cat Slideshow (P)
2295 Alcatraz Museum (P)
2302 Quality Time (5Mb) (4D) (P)
2303 Lemmin's Revenge (2Mb) (P)
2305 How To Catch A Canary (3Mb) (3D) (P)
2306 At The Flix (2.5Mb) (2D) (P)
2307 The Journey* (2D) (P)

UTILITIES

4012 Workbench Hacks (W/B) (P)
4045 Amiga Diagnostics V9.1 (P)
4084 Cartoon Brushes (P)
4087 CManual V2.0 (4D) (P)
4095 DTP Amiga Fox V1.0 (P)
4100 Text Plus 3 (P)
4102 Messy Sid II (P)
4108 NorthC V1.3 (2D) (W/B) (P)
4110 SID V2.00 (P)
4112 UEdit V3.0a (P)
4117 Electric Cad V1.2 (P)
4119 MED V3.21 (Music Editor) (P)
4124 Amibase Pro II V1.2 (P)
4126 PG Task V1.04 Demo (W/B) (P)
4127 Magnetic Pages 1.3 (W/B) (P)
4128 Drivers (Canon/Star9 Pin) (P)
4129 Print Drivers (Over 100) (P)
4136 Sound Tracker 2.6 (P)
4140 Viz Clip Art (P)
4141 Garfield Clip Art (P)
4143 D-Copy V2 (DMob) (P)
4161 Epoch V (1200 year calendar) (P)
4162 Typing Tutors (P)
4163 Learn & Play Plus (P)
4164 The Mr Men Pack
4166 A-Gene V4.18 (P)
4167 BBase II V5.5 (P)
4168 Protracker V2.3a (P)
4169 Calc V1.2 (P)
4170 IQ Challenge (W/B) (P)
4173 Kick 1.3 (A500 Emulator) (P)
4174 A64 Emulator V2.0d (2D) (P)
4176 Last Will & Testement (P)
4177 Ming Shu Chinese Astrology (P)
4179 NComm V3.0 (P)
4180 BootX V5.23 (P) (Not 1.3)

TOWER SOFTWARE GAMES

Below are the excellent Tower Software Games (full versions) they are not PD.
Serious Solitaire £10 Serious Solitaire II £10
Serious Backgammon £20 Come complete with manual
Mancala £10 African board game, reputedly the worlds oldest game. Tower Software prices include P&P

ClipArt Pack containing Pdoms Clipit Disks 1 to 5 only £5.00 inc. P&P. ClipArt Pack containing Clip Art 1-10 (10 disks) only £8.50 inc. P&P.

QUICK SHOT II TURBO JOYSTICK ONLY £9.90, LOGIC 3 MOUSE (300DPI) ONLY £15.50. P&P INCLUDED.

(P)=500+ and A600 compatible. *=1Mb. (2D)=2 disks. (3D)=3 disks.etc. (W/B)=Workbench needed to run.

UNBRANDED 3½" BLANK DISKS DS/DD

10 – £5.00 50 – £22.00 100 – £41.00 200 – £76.00 500 – £175.00

All blank disks are 100% certified & guaranteed, prices include label, postage/delivery and VAT. Catalogue disk only 75p or send 3 x 24p stamps. All orders of PD sent same day by first class post. Postage & Packing add 75p UK, £2.50 Europe (inc. Eire), £4.00 Rest of the World, payment in sterling please. Cheques/postal orders made payable to South Lincs PD

South Lincs PD, (AC), 10 Linden Rise, Bourne, Lincs PE10 9TD. Tel: 0778 393470

BACKCHAT

Decked out in his favourite straight jacket and with his eyes pinned back by masking tape, John Mather settles down for another relaxing session of letter answering. He loves this job, he really does...

WHAT'S A COMPUTER?

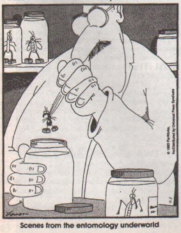
Since finding myself dumped on the compost heap at the incredibly young age of 60, and with no chance of ever regaining legitimate employment, I scanned the scene for something to do, not too strenuous or taxing, but something just to while away the next twenty years or so before being measured for the obligatory wooden overcoat.

Having heard the word 'computer' mentioned several times during my forays into the plush surroundings of the Job Centre, but not knowing what this thing was, I made my way to the nearest hi-tech shop and met a very knowledgeable young sprog who, if not a computer whizzkid, was only half a byte away from it. In answer to my numbskull questions, it soon became clear to me that this young mouse had the mental capacity of a 32-bit RAM chip, running at 40MHz, and that I should need to keep my feeble wits about me if I was not to walk home having bought the NASA launch pad.

Although I could not be described as brain dead (except when the pubs close on a Saturday night), I do sometimes feel that a 68EC030 Accelerator implanted somewhere in that region might improve things a bit.

However, he (the shop sprog) quickly weighed up my financial straits and flogged me an Amiga 500 package with *WP Kindwords 2, DB Superbase, DTP PageSetter 1.2* and *Deluxe Paint 2* all on *Workbench 1.3.*

With great enthusiasm he pointed out its awesome potential and upgrading possibilities, a fact to which I can personally testify having upped everything: three disk drives, extra $^1/_2$Mb of memory with clock, up to 3Mb of Simms and an A500-HD+ GVP 49Mb Impact Series II hard disk.


THE FAR SIDE By GARY LARSON

© 1993 FarWorks, Inc/Distributed by Universal Press Syndicate

Scenes from the entomology underworld

Having splashed out the hard cash, I then set about mastering its belligerent software and it became a battle between its floppies and the hardening of my arteries. I think I'm winning. However, I do need advice from someone at the top and wondered if you could oblige.

1. I want to put 500 B&W and colour photos of railway material on computer using a scanner, and be able to add text from my word processor and database to the pictures. Is this possible?

2. Would it be best to install an A500 Microbotics VXL-30 accelerator, or exchange my A500-HD+ for a new GVP A530 Turbo? Or do something else?

3. If I upgraded (again) to a 32-bit machine, would it be compatible to my present much-used word processing and database programs?

Finally, can I remind you of my age, just to indicate that I'm reluctant to go in for a second mortgage to pay for all of this? (Although I would be prepared to sacrifice a few hangovers if absolutely essential).

Jack Hayward, Swindon, Wilts.

1. Sure it's possible. You'll need a hand scanner to convert the photos. You can buy a good one from Golden Image (Tel no:081 365 1102) for under £100. You'll also need a DTP or page publishing program to incorporate the text and graphics. My personal favourites are *Professional Page, Wordworth 2* and *Final Copy 2.*

2. The A530 Turbo is the creme de la creme, but as you already own a hard drive it makes sense for you to buy a VXL-30 unless, of course, money is no object!

3. Chances are most of your 'serious' software will still be compatible with a 32-bit machine. Some of your games may not all be as reliable, though.

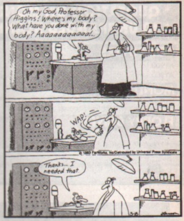
TESTING TIMES

As an A4000 owner I was shocked to discover that MicroProse's latest flight sims, *B-17 Flying Fortress* and *Gunship 2000*, simply refuse to work on my machine.

In search for some explanation I called their helpline and discovered that they are not able to test their games on the A4000 simply because they don't have one at the office. Is this something one should expect from a so-called quality software house?

Fortunately, all is not lost. I am sure most of us already know that Digital Image Design (DID) will release an A1200/A4000 specific version of *Inferno* and Digital Integration(DI) assured me that their very soon-to-be-released *Tornado* will be compatible with all Amiga models, including the A4000.

Yes indeed, they do have one at the office! Even better, there will be an AGA-version a short time after the general Amiga release and there could even be a possibility to upgrade.


THE FAR SIDE By GARY LARSON

Oh my God, Professor Higgins! Where's my body? What have you done with my body? Aaaaaaaaaaa!..
WAP!
© 1993 FarWorks, Inc/Distributed by Universal Press Syndicate
Thanks... I needed that

Well, it seems DI and DID actually show commitment! I also have a question for you. If MicroProse manages to get its act together is there, considering the time it took to port Gunship 2000 over from the PC, a possibility of seeing an Amiga version of *Falcon 3* before the end of the century?

Camermans Filip, Belgium.

Actually I can sympathise with MicroProse on this one. Here at CU AMIGA we're lucky if we even get to see an A500 with our budgeting problems. You think this magazine is all done on those newfangled DTP things with computers and all that? Hah! I'm typing this on an old steam-driven typewriter while the page is being laid out by people with cutting knives and sticky tape!

And no, somehow I don't think we're going to see *Falcon 3* in the near future. American software is being transferred to Amigas with rapidly decreasing frequency these days. Besides, we're getting Tornado. A good British plane, with British values, (cue Land Of Hope And Glory, patriotic flag-waving etc.).

THE TURNIP PATCH

I have just spent four hours playing *Graham Taylor's Soccer Challenge* and I haven't even been promoted to Division 2. I thought it would take three seasons to be promoted. I spent the first season improving defence, buying four new quality players. Everything was going well until half way through the season when my team started leaking goals. By the end of the season we had let in a staggering 96. Not surprisingly, I was sacked.

It's not that I'm no good at soccer management games. I'm good at *Premier Manager*. I've got £20m and won the league for the past six seasons. Please could you contact Krisalis for me and ask them what the hell they think they are doing. I have written to them but they have not responded. Please print this letter or I will do something drastic, like blow up Krisalis's headquarters.

Dean Phillips, Newton, Porthcawl.

I don't know what you're complaining about. We all know Graham Taylor doesn't know anything about football and deserves the sack, so I don't think you could wish for a more realistic soccer sim. Without realising it, you've completed the game. And remember, playing with explosives isn't clever kids!

PURE GUESSWORK

I recently fed all the available data concerning Dan Slingsby's age into my A4000, running a very sophisticated, home-made maths processing program. I took the resulting figure to my Equational Archiving Data Encrypter and entered the combined total (in binary) into the logic circuits of a custom-built Theoretical Analyser and set it on compute mode.

The process took a total of four hours, thirty-three minutes and forty-five seconds and I can now reveal the exact figure (to the nearest second) of Mr. Slingsby's age. Here goes. It's... Yellow?!? ...oh Bum.

Kevin Naylim, Southport, Lancs.

Oh well, what a damn shame after all your hard work and effort. It just goes to show that even high-technology can't be trusted. But you were close, very close though. Although, Dan's probably more than likely in the Aquamarine age group.

PAT ON THE BACK

You don't normally print letters of praise, but I think that this particular company really deserves a pat on the back.

I recently wrote to three companies with the aim of obtaining some information, guidance and additional fonts for my copy of *Pagestream*.

Two days later, I received a large, well presented, and very informative information pack from EM Computer Graphics.

Several days later an information pack arrived from one of the other companies. That was two weeks ago, and so far I have not heard from the third company, who I have to say, must be very interested in selling their products!

So, I now had two different info packs. The second company's pack detailed the fonts they had available, as it should, and came with a letter from the proprietor which was a nice touch, even though it was most probably a standard letter sent to every customer.

One thing that did catch my eye was that one page listed a substantial number of fonts that had been removed from their collection due to copyright reasons. I guess this meant that the company had not done their homework and had been illegally distributing commercial fonts. I wasn't at all impressed with this and decided to place my order with EMC.

Guided by EMC's info pack, I decided on what I wanted and phoned EMC with my order. I found that the person, Errol, who answered the phone to be extremely knowledgeable. He answered my numerous questions concerning fonts and their installation without hesitation, which proved to me that he knew what he was talking about. As a result, I placed my order for two of the EMC type 1 volumes of fonts. I was totally gobsmacked when my disks arrived the very next day. I had actually been prepared to wait several days, as I normally do when I place orders for PD software. I ripped open the package and again was impressed because instead of the normal blue disks, I was presented with 10 black ones, which even had the EMC logo printed on the shutters.

Even the labels were properly printed and not run of the mill dot matrix printed labels that I'm used to receiving. It was a nice professional touch I thought!

To cut a long story short, I found the EMC disks were well laid out and the information and installation instructions were very clear and written with the beginner rather than the professional user in mind. I have since placed several more orders with EMC and consistently found their service, support and products to be of the same high standard. I'd certainly recommend them to other CU AMIGA readers, so I hope you'll give them a mention.

Bill Bakayi, Catford, London.

Thanks for letting us know about the good service offered by EMC. Have any other readers any dealer recommendations that they'd like to make?

LETTER OF THE MONTH

CONSOLE CRAZY

Being a complete Amigaphile, I rushed out to buy the latest issue of any magazine that had details of the new Amiga CD console. The only one on the shelf was CU AMIGA, strangely appropriate as I have been a reader since 1984. And there within those glorious pages contained all the details concerning the Commodore Amiga CD32.

Dan Slingsby's editorial, which opened with the phrase 'Sega and Nintendo are history' was almost as naively optimistic as Commodore themselves. I couldn't help feeling when I read your article that Commodore will be pushing this machine as a games console. Certainly it comes close to the accepted definition for the term games console - no keyboard, fiddly little joypad and so on - but how can the Big C possibly hope to take on the giants like Nintendo and Sega and win, just on the premise of having a machine with a better spec?

And most certainly, the Amiga CD32 does have a better spec than the other consoles currently widely available, within the price range, and the inclusion of a facility for FMV is very exciting. It is essentially an A1200 with a CD drive, but shoved into a rather primitive-looking black box. However, this 'look' might detract from its success. Despite the old adage 'Don't judge a book by its cover', people see the machine first, be it in a shop window or wherever, and if it looks like a pile of CR*P then I'm not sure about how many people would bother to investigate further.

Ultimately, it's the machine that counts, but with the kind of market that Commodore is trying to address, looks are all important. Why else did Nintendo release the UK version of the SNES in a curvy casing rather than the rugged 'purple breeze block' look of the US version?

After all the recent shake-ups and write-downs at Commodore, they surely don't have the marketing 'oomph' required to push this product enough. Sure, it's been hyped and all the magazines seem to be pretty excited about it, but in order for new games console to compete, it needs to have a huge advertising campaign. This is possibly even more important than the software that's available at launch. Take, for example, the Sega Mega CD. Where was the software? Nowhere to be seen. But the adverts? You couldn't miss them. As a result, all 70,000 that were initially shipped into the country sold out like very hot cakes indeed.

I feel that because of this, the only way the CD32 will truly succeed is in the Amiga's established market. Until an add-on CD drive is available for the A1200 and A4000, I find it hard to believe that this machine will make serious inroads into Sega's or Nintendo's market. I, for one, as a recently upgraded A1200 owner, will not be investing in CD technology until an add-on drive becomes available. Unfortunately, Commodore's record in this department is poor. How long did it take them to release the A570 drive for the A500 after the much-delayed release of the CDTV? Almost a year.

Again, I can't help but feel that Commodore's promise of an add-on before Christmas is, if not dishonest, extremely optimistic. If this trend is repeated, and the machine does not sell on its own merits, as I find likely, then by the time Commodore get around to releasing a CD32 kit for the A1200, won't all the software houses have given up?

I am ready to be proved wrong. There is nobody who would rather see the new machine succeed than me (well, maybe Commodore too), because CD software could be the saviour of the Amiga as the last barrier to piracy. Those software companies who have stuck with the Amiga so far are eager to get into the CD market for this reason, but I have to site the case of the A1200 in terms of software support. I bought my machine only a couple of weeks after its release, when even the AGA version of *Zool* was apparently unavailable, and software is still, after several months, not particularly forthcoming despite reported huge sales of the computer itself. In order for the CD32 to succeed, Commodore must ensure that new and innovative product is developed, and if this involves investment in new projects with third-party manufacturers, so be it. After all, David Pleasance has promised in your very pages that 'it will not fail'.

Let's hope, for the sake of the Amiga, that it doesn't.

Daniel Spreadbury, Bournemouth.

It's certainly make or break time for Commodore. After our initial excitement over the machine, our enthusiasm has waned somewhat because there are few games anywhere near completion and the truly mind-blowing stuff won't appear until well into next year.

We also have our doubts about how the machine will be marketed; this is an area in which Commodore have never been particularly strong. You only have to think back to those awful boy-at-computer-playing-games ads last Christmas to see what I mean. They looked incredibly tame when compared to the Nintendo and Sega ads, and made everyone who uses an Amiga look like extremely sad anorak cases.

Still, with a strong north easterly wind behind them, Commodore must have a more than evens chance of making a success of the CD32 console.

Watch out for a new CD column starting shortly in these very pages...

AMIGA SELL OUT

AMIGA SOFTWARE FOR SALE OVER 1,500 TITLES!
ONLY £1 PER GAME.
SEND S.A.E. TO JK VAN CITTERSTRAAT 54a,
3022 LL, ROTTERDAM

CHEAT DISK PACKED WITH OVER 800 CHEATS AND 100 SOLUTIONS. ONLY £2.00 J ALLEN 2B
WEXFORD ROAD OXTON
BIRKENHEAD MERSEYSIDE
L43 9TD

Amiga Contacts wanted everywhere write to 387 Stourbrige road, Catshill, Bromsgrove, Worcs. England, B619LG. All Replies Answered Guaranteed 100%.

Colwyn P.D. All disks £1.00 each, for more details and catalouge send a S.A.E plus stamp to: 17 Gladys Grove, Colwyn, Clyd LL29 7UB

Tartan Amiga Scotland's No1 P.D From 89p+manuals/read me Printouts Stereo Headphones £1.99 Send S.A.E. lower Clintshead Langholm DG13OJN

Amiga ContactsWanted. Send Lists to David, 15 St Anns Cresent, The Green, Dyfed. Wales. All letters will be answered.

VIDEOTAPE STREAMER SAVE/TRANSPORT HUNDREDS FLOPPIES+HARDDRIVES GRAPHICS ETC. ON HOME VIDEOTAPE.
ERROR FREE.... OUTSTANDING £37.50 68000 14(MHZ) PROFFESIONAL ACCELERATOR (PCB) D.I.Y. PROJECT £27.50.
HARDWARE COPIES £18.50, SYBIL£35.00, C.O.D. AVAILIBLE DISK+ STAMP DETAILS
8 PARK TERRACE TULLIBODY
CLACKS SCOTLAND

"THE BOY DONE WELL" MONTHLY FOOTBALL DISK MAGAZINE FOR AMIGA ONLY £1.
SIMON TYERS
216 WIGSTON RD OADBY
LEICESTER LE2 5JE

PD COLLECTION FOR SALE OVER 1000 DISKS ONLY £275, TEL. 0623 743657. ASK FOR MARK

Amiga contacts wanted all the latest games available to swap. Send your list/disk to Chay 40 Jalan SS12/2D Subang Jaya, 47500 Malaysia.

Trojan phazer users! Marksman disk 2. Samples hints, phazer game! £1. David Green 67, Thicket drive Maltby Rotheram S.Yorks S66 7LB.

Wanted : Worldwide Amiga contacts. Send list or disc to Stephen Bradely, lisnafin Newtonstewart, Omagh, Co Tyrone. N.Ireland. BT78 4NN. Prompt reply guaranteed.

EARN THOUSANDS OF POUNDS BY COMING UP WITH IDEAS ON PAPER FOR THE LATEST COMPUTERS. WORK FROM HOME IN YOUR SPARE TIME ALL AGES WELCOME COMPLETE INFO PACK £4.95 INC P&P BRIAN BELL 8 MAGNOLIA PARK, DUNMURRY, BT17 0DS.

AMOS PROGRAMMERS PACK THIS 7 DISK MONSTER CONTAINS OVER 500 DIFFERENT AMOS SOURCE CODE PROGRAMMES AND THE BEST AMOS EDITORS , UTILITIES AVAILABLE. ITS AS ESSENTIAL AS AMOS ITSELF! SEND £12.95 INC P+P BRIAN BELL 8 MAGNOLIA PARK DUNMURRY BT17 ODS

Make a fortune on the amiga a little work is involved. For details send a S.a.e. to J.Carlon 44 Bransford rd, Higher Openshaw, Manchester M111DN.

Amiga 500 (screengems) plus 52 megs Ram installed £300. Okimate 20 colour printer inc-ribbons £50. phone after 7.30pm weekdays Nigel 081-529 5092.

All latest Amiga games for complete list to Diamond P.O. box 17 Rye East Sussex England TN31 6DA.

A1-PD SEND1st/2nd CLASS STAMP FOR CATALOGUE TO J. ATKINSON 44 GLYNFELLIS LEAM LANE GATESHEAD NE10 8RJ.00

Please can I have an Ad in Sell Out

I enclose cheque / P.O. for £..........

Name...

Address...

...

...

Total number of words ....

Post to: Ad Dept, CU Amiga, Priory Court, Farringdon Lane, London EC1R 3AU.

Lineage - 30p per word to private individuals - 20 words min. 40 words maximum, 40p per word to trade, 20 words min - 40 words maximum. Semi-display - £15 for S.C.C. Ring 071 972 6700.

All classified & Semi-display advertising is pre-payable. All classified ads are subject to space availability. WARNING - It is illegal to sell pirated copies of computer games. The only software that can be sold legitimately through our classified section are genuine tapes, disks or cartridges bought from shops or by mail order from software houses.

AMIGA

REPAIRS

90 Day Warranty

£39.95*

***PRICE FOR A500/+ INCLUSIVE OF PARTS AND RETURN POSTAGE.**
REPAIRS TO OTHER SYSTEMS BY QUOTATION - PHONE FOR DETAILS

DELIVER\SEND UNITS TO:-

EVERITE Limited, Sutton Business Centre, Restmor Way, off Hackbridge Road, Wallington,
SURREY. SM6 7AH, Telephone 081 669 0011 Fax 081 773 0406
Enclosing Payment, fault description, return address including daytime telephone number.

(*We reserve the right to reject any machines that in our opinion are beyond repair*)

ORION PD

FREE DISKS ORDER
5-10 get 1 free
11+ get 2 free

SPECIAL PACKS

BUSINESS PACK 1	Contains 5 disks	4.95
BUSINESS PACK 2	A further 5 disks	4.95
UTILITIES PACK 1	Contains 5 disks	4.95
FONTS PACK 1	Contains 3 disks	4.95
CLIP ART PACK 1	Contains 5 disks	4.95
CLIP ART PACK 2	Contains 5 disks	4.95
CLIP ART PACK 3	Contains 5 disks	4.95
CLIP ART PACK 4	Contains 5 disks	4.95
GAMES PACK 1	Contains 5 disks	4.95
GAMES PACK 2	Contains 5 disks	4.95

HOW TO ORDER

Please make cheques with bankers card number
or postal orders payable to "ORION PD"
All orders despatched 1st class same day.
+ = A500 + / A600 compatible ( ) = Number of disks
WB2/3 = This program is only WB2/3 compatible

PRICES

1-5 DISKS.........1.25
6-19 DISKS..........99p
20 + DISKS..........89p

POSTAGE

UK ORDERS........75p
EUROPE...............2.00
WORLD................4.00

Dept CU11
14 OUSTON CLOSE
WARDLEY
GATESHEAD
TYNE & WEAR
NE10 8DZ
Tel: 091-4385021

UTILITIES

U001 ELECTRO CAD + circuit designer
U002 C-LIGHT + create 3D ray traced objects
U003 M-CAD + computer aided design
U004 D-COPY 3.1+ new version, great copier
U005 MESSY SID II + PC to Amiga file transfer
U006 AMIGA FOX DTP + make your own leaflets
U008 DISK LABEL DESIGNER +
U009 LAND BUILDER + landscape generator
U011 OPTI UTILITIES II + lots of great utilities
U015 DISK SALVAGE + recover deleted files
U016 RED DEVILS UTILITIES + good collection
U019 NEW SUPER KILLERS + latest virus killers
U020 PRINTER UTILITIES + hypercard, label print
U027 WORLD DATABANK 2.2 + draws maps etc
U028 A64 EMULATOR 2.0 + (2) latest version
U030 LABEL PRINT 1.6 + make coloured labels
U031 CROSS 5.1 + creates crossword puzzles
U032 SID II + directory utility program
U033 PRINT STUDIO 1.25 + multi-printer
U034/38 PAGESETTER CLIPART +(5)
U039 GELIGNITE FONTS 2 +
U040 AMIBASE PRO II + a powerful database
U042 TYPING TUTOR + improve your typing
U043 PRO D-COPY 3 another good copier
U044 CASSETTE LABELLER + cassette inlays
U055 HD CLICK 2.53 + HD utility
U062 PICTURE SAVER + save screens
U071 ICONS 1 + includes hundreds of icons
U072 FREE PAINT + good painting program
U073 GELIGNITE FONTS 3 + lots of great fonts
U074 MULTI PLAYER + music player
U076 MIDI STUFF + 8 midi tools
U079 ICON EDITOR + make your own icons
U081 A-DOC 3.01 + a help utility for the Amiga
U083 CARTOON BRUSHES + coloured brushes
U086 FREE COPY 1.8+removes protection
U088 SPECTRUM EMULATOR 1.7 + new version
U089 TEXT ENGINE 4+ with 38K spellchecker
U092 POOLS TOOLS 2 + pools prediction, great
U093 BICS 1.1 + boot intro construction set
U099 BUSINESS CARD DESIGNER+
U100 AMIGA TUTORIAL + a superb tutorial
U103 ANIMATION STUDIO +simple anim program
U104 SLIDE SHOW MAKER +
U106 FINDEX + very simple to use database
U108 FILEOFAX +an excellent organizer program
U110 ASSASSINS MEGA BOOTBLOCK +
U111 RSI INSTRUCTIONS DISK +
U115 EMULATORS 1 ST, PC, A64, BBC, MAC
U117 600 BUSINESS LETTERS +good collection
U120 MAGNETIC PAGES + disk magazine creator
U123 NORTH C +
U124/126 NORTH C MANUAL + (3)
U128 A-GENE 4.18 + genealogy program
U129 EDUCATION MIXED BAG +
U134 GARFIELD CLIP ART +
U135 RECORD KEEPING +
U136 QUICK BASE database program
U137 FLEXIBASE + database program
U138 FORMS REALLY UNLIMITED +create forms
U139 PC TASK 2.03 + latest version
U140 ARQ + animated requesters
U141 VIDEO MUSIC BOX DEMO +
U142 ELEMENTS + table of elements
U143 CALORIEBASE + calorie counter
U144 PICTURE BASE + picture database
U145 DOS MANAGER directory utility
U148 BOOTGEN + run programs from boot menu
U149 AMIBACK + HD utility
U150 JC GRAPH + 3D business graphs
U154 REORG + a fast disk optimiser
U157 ZOOM + a fast archiving program
U159 DISK PRINT 3.59 + label printer & database
U160 BONAPPETIT + recipe database
U161/165 PRO C MANUAL + (5)
U167 PRINTER DRIVERS + canon & star
U168 TYPOGRAPHER + font editor
U172 POWER PLAYER + module player
U173 CROSS MAZE + a crossword puzzle game
U174 MFR WB2 magic file requester
U175 ABACKUP 2.45 + a new hard disk backup
U171 BBASE II V1.3 + a full featured database
U180 IQ TESTER + test your own IQ
U183 THE MONEY PROGRAM + home finances
U221 PRO DEMO MAKER make your own demos
U225 FONT EDITOR +
U229 DISK MATE 4.1 + another excellent copier
U234 VERTEX + 3D object editor
U238 LANDSCAPE GARDENING design gardens
U242 DELI TRACKER + module player
U247 ANTIFLICKER + flicker fixer
U253 MENU MASTER 3.0 + menu maker
U254 CHEQUE BOOK + cheque book accountant
U255 BLUE ROSE FONTS 1 + some great fonts
U256 VIDEO MANAGER + video tape organizer
U260/264 WORKBENCH 2 UTILITIES (5)
U271 DEGRADER 1.3 + run old progs on WB2/3
U272 ZKICK 3.01 emulate workbench 2 on A500
U275 AUDIO ANIMATION STUDIO + ani & sound
U277/281 COLOUR FONTS + (5) for d-paint etc
U282 NIB 2 + a powerful copier
U283 LITTLE OFFICE + integrated pack
U302 PLOT MAP 0.85 WB2/3 draws world map
U313 GRINDER + graphic converter
U314 PC-AMIGA + transfer files & lot more
U334 SLIP STREAM UTILITIES one of the best
U338 BLUE ROSE FONTS 2 + good collection
U339 WEDDING CLIP ART +
U340 SOUND TRACKER 2.6 + music editor
U341 ICONS 2 + lots of coloured icons
U343/344 TAROT II + (2)
U371 LYAPUNOVIA 1.5 + now full version
U372 VIRUS Z + detects over 500 viruses
U380 VMORPH + create morphs / warps
U381 AAP-AAC + animation playback program
U382 CARTOON PICTURES +
U385 COPY 'N' CRACK TOOLS+ good selection
U392 AFRICAN CLIP ART +
U394 PROTRACKER 3.01+ music editor
U395 OCTAMED 2 + now full version
U400 CLIP ART 4 + world war II aircrafts
U401 CLIP ART 24 + comic art
U402 CLIP ART 28 + old banners 1
U403 CLIP ART 29 + butterflies
U404 CLIP ART 31 + borders 1
U405 CLIP ART 32 + Mac clip art
U406 CLIP ART 50 + animal line art
U407 CLIP ART 60 + accents & flashes
U409 CLIP ART 3 + religious clip art
U410/420 AMATEUR RADIO PACK (11)
U421 TRONI CAD DEMO 1.0 +
U422 LAST WILL & TESTAMENT +
U423 ICONS 3 + lots of coloured icons
U427 HISTORY OF WORLD WAR II +
U435 A1200 DOWNGRADER WB3
U436 TOTAL CONCEPT DINOSAURS 1 +
U443 THE ESSENTIAL COPIERS good selection
U445/48 VIDEO GRAPHICS+(4)
U449 IBM/PC EMULATOR + good PC emulator
U450 QA TEST + MOT test your Amiga
U451 VISICALC + solid spread sheet
U459 PRINTER DRIVERS 2 + various drivers
U483/84 WORKBENCH 3 UTILITIES (2) essential
U542 EASY PRINT print utility
U545 KIDS PAINT
U546 WORKBENCH HACKS + good collection
U549 PRINT TOOLS
U578 SCENERY CONSTRUCTION KIT
U584 ULTIMATE DISK CREATOR
U587 D-PAINT FONTS +
U592/93 FRACTAL LANDSCAPES + (2)
U611 FONT FARM another packed disk
U614 DYNAMITE FONTS 1 + cut & paste fonts
U621 RACE RATER + horse predictor program
U623 SPEEDY WORKBENCH quick loader
U624/25 COLOURED CLIP ART +(2)
U636 DIRMASTER + directory utility
U637 MORTGAGE CALCULATOR
U639 MEGA CHEATS 2 + games cheats
U641 CUSTOM ICONS +
U642/643 ORACLE (2) fortune teller
U650 WORD SORT solves anagrams
U651 ADDRESS PRINT easy to use
U657 ADVENTURE CREATOR with graphics
U662 PICTURES & LETTERS + educational program
U669 FOOTBALL LEAGUE EDITOR
U673 MAGNUM 1.4 + disk magazine creator
U676 ACCOUNT MASTER +well written program
U677 SKICK WB2/3 emulates A500 & A1200
U678 D-PAINT TUTORIAL + some good lessons
U679 HARD DISK UTI 2 + a must for HD owners
U680 AMIGA WORLD + world database
U681 FAKE FAST WB2 chipmem to fastmem
U682 QUADRA COMPOSER + music editor
U683 UDRAW + draw schematic diagrams
U684 PAYROL + payroll accounts
U685 ASSASSINS GAMES Fix Disk A600/1200
U686 GENEALOGIST(A/Jay) 3.04 WB2/3
U687 FRACTUALITY DEMO + fractals program
U689 Mr. BACKUP 1.14b + hard disk backup
U690 APRF 2.11 + document print utility
U691 KILL ABA 2.0 WB3 runs old programs
U692 LSD COPIERS superb collection
U693/96 COMPUGRAPHICS FONTS + (4) essential
U697/98 TOOL MANAGER 2.1 WB2/3 (2) a must
U699/703 EDUCATION PACK 1 + (5)
U704/708 EDUCATION PACK 2 + (5)
U709/712 ASSASSINS AUDIO MAGIC PACK (4)
U713 ASSASSINS CRUNCH & COPY
U714 ASSASSINS MULTIVISION 2 +
U716/717 ASSASSINS HANDY TOOLS PACK (3)
U718 ASTRONOMY 1 +
U719/726 SPACE & SOLAR SYSTEM + (8)
U727 INSTALLER WB2/3 HD installer
U728 OSCILLOGRAPH + oscilloscope emulator
U729 GUIARC + arc's graphical interface
U730 DISK SALVAGE 2 WB2/3 new version
U731 DSS + logic circuit simulator
U732/733 KING FISHER 1.3 + fish database
U734 SCAN 8800 2.33 + SW transmitter database
U735 DRED + achieve 99% fullness of floppies
U736 CDTV PLAYER 2.0 + karaoke CD's
U737 CHEAT LIST + over 500 games
U738 PLANETARIUM + an astronomy program
U739 FBS BASIC + basic program
U740 BOOT JOB + boot block utility
U741 TREE GROW + fractal trees & plants
U742 AII + archiving made easy
U743 A-MASTER + address database
U744 MANDEL SQUARE WB3 mandelbrot images
U745 SUPER DARK + screen blanker
U746 SLICER + create abstract art
U747 LAZY BENCH WB2/3 HD utility
U748 LOOK + disk magazine creator
U749 PRINT MANAGER WB2/3 print utility
U750 UNDELETE + restore deleted files
U751 ADDRESSIT DEMO + mail manager
U752 DOC DUMP + prints 4 pages of text on 1

GAMES

G001 GAMES COMPILATION 1 +
G002 GAMES COMPILATION 2 +
G003 GAMES COMPILATION 3 +
G004 GAMES COMPILATION 4 +
G006 21 GAMES +
G007 3D BREAKOUT +
G008 YELP +
G013 LLAMATRON
G016 SUPER QUIZ 2 +
G017 AIR ACE II
G021 HYPERBALL +
G023 DOODY +
G025 SYS +
G027 FRUIT MACHINE 1
G029 JIGSAW +
G031 MATHS ADVENTURE +
G038 DIPLOMACY +
G039/40 C64 GAMES + (2) needs U028
G045 HOLLYWOOD TRIVIA +
G044 CUBULUS +
G047 Mr & Mrs +
G051 DRAGON TILES +
G053 POM POM GUNNER +
G054 TWO PLAYER SOCCER LEAGUE +
G058 FORMULA ONE CHALLENGE 3.0 +
G082 MONOPOLY 1 +
G083/84 STAR TREK + (2) by Tobias Richter
G098 SUPER PACMAN 92 +
G100/101 STAR TREK (2) by jim barber
G110 FRUIT MACHINE 2
G113 TOP OF THE LEAGUE +
G114 Dr. MARIO +
G115 SOCCER CARD +
G119 BATTLE CARS 2 +
G120 GROWTH +
G129 TETREN +
G130 NU +
G187 TOTAL WAR +
G189 NO MANS LAND + 2player
G192 NEW CARD GAMES +
G194 FRUIT MACHINE 3 +
G204 TENNIS +
G220 BRAT +
G225 EMPIRE +
G235 MASTER OF THE TOWN +
G234 STOCK MARKET GAME +
G245 RETURN TO EARTH +
G257 CHESS TUTOR +
G258 ETHOS + Adventure game
G263 AIRMANIA +
G274 SURVIVOR + Adventure game
G280 TANKS +
G283 WORM HOLE +
G286 LEMMINGOIDS +
G289 BUG BLASTER +
G290 GAMES COMPILATION +
G292 PUGGLES +
G295 FATAL MISSION +
G298 SATU + Puzzle game
G300 CRICKET 1 +
G303 ESCAPE +
G304 DOMINOES +
G307 TRAILBLAZER +
G308 GAMES GALORE 11 +
G310 AIRPORT +
G312 ROULETTE +
G314/315 FANATIX + (2)
G316 GAMES GALORE 12 +
G317 KLAKTRIS +
G320 TURBO THRUST + 2player
G322/323 OLEMPIAD + (2)
G324 OBLIDOX +
G325 SKY FLYER +
G326 CRICKET 2 +
G327 GAMES GALORE 13 +
G328 MIND GAMES +
G329 DESCENDER +
G330 GAMES COMPILATION +
G334 WAR +
G335 E-TYPE 2 +
G336 BOX + Adventure game
G341 BATTLE STAR + Adventure
G342 DELUX PACMAN 1.4 + NEW VERSION
G343 POKER +
G345 MONOPOLY 2 +
G346 SHUFFLE RUN +
G347 TANK HUNTER +
G348/350 NETHACK + (3) Adventure
G351 ASTEROIDS II +
G353 TOP SECRET +
G354 TETRIS AGA WB3
G355 BOMB JACKY +
G356 FIGHTING WARRIORS +
G357 CRAZY SUE 2 +
G358 SOLITAR GOLF +
G359 TETRIS PRO +
G360 TURBO THRUST +
G361 MAD BOMBER 2 +

ASSASSINS GAMES 1-108

ASI 108 strike ball, ring war, obsess
ASI 107 serene 3, 4 in a row 3D, equilog
ASI 106 simon, cosmoroids 2, micro market
ASI 105 particle man, rummy, desert defender
ASI 104 operation meteor, pork a pork
ASI 103 megarace, wacky wabbit, lost oronest
ASI 102 fruit salad, rebound, pac sim
ASI 100 monaco, patience, blood runner
ASI 99 parashemmot, org, space wars, gribit
ASI 98 sky chase, the phone company, nestro
ASI 97 bunny blast, new stub city, mutants
ASI 96 dungeon flip, tumble tots, raster-bike
ASI 95 premier picks, tangle, league manager
ASI 94 giddys world, super skoda challenge
ASI 93 smash bang, alien bash, Mr. munt
ASI 92 bill, oblidox, solitaire sampler
ASI 91 rolon, matrix, spectrum
ASI 90 flashbier, mine fields, starins
ASI 89 megaball 2.1, x-fire, cludo
ASI 88 defender, relayer, mosaic
ASI 87 aztec challenge, jonus fullerand, land mines
ASI 86 smurf hunt, lords of hosts, legend of lothian
ASI 85 paradox pre, match cards, rubik puzzle
ASI 84 enigma, stshoo, zerberk
ASI 83 loadsamoney, pong, spider
ASI 82 artillerus, shuffle run, volley ball
ASI 81 amos defence, thunder ton, gargundula
ASI 80 army miner, gallows, golf, flip it
ASI 79 vektor storm, grave attack, atoms
ASI 78 headgames, little boulder, fruit panic
ASI 77 balloonacy, cliff hanger, descender
ASI 76 gnu chess, cubus, garb
ASI 75 double squares, colours, diamond thief
ASI 74 crazy pipes 2, bombjacky, chute
ASI 73 lesses, concentration, challenger
ASI 72 escape pre, boulderdash, car 2
ASI 71 numerix, battleships, vs tanks
ASI 70 tetris pro, wangle, digital tetris

U685 ASSASSINS GAMES FIX DISK A600/1200

ASSASSINS PACKS

Any 10=£10 Any 20=£18 Any 30=£26
Any 50=£42 Any 80=£66 Any 100=£82
ASI games are also available individually

FRED FISH 1-890

Fish catalogue £1.25

LSD LEGAL TOOLS 1-130

The best collection of PD utilities

CATALOGUE DISK 95p

OVER 3000 TITLES IN STOCK !!

BUSINESS PACK 1 (5)

TEXT ENGINE 4, AMIBASE PRO 2 AMIGA FOX DTP, ADDRESSER HOME ACCOUNTS, BUDGET, TYPING TUTOR, BUSINESS CARD DESIGNER, SPELL CHECK, EASY COLOUR, FILEOFAX, SUPER DUPER, WORLD TIME

BUSINESS PACK 2 (5)

FORMS UNLIMITED, MESSY SID2 TEXTPLUS 3.0, SPREAD, SMART ICON, SUPER SPELL, HYPERCAT 600 BUSINESS LETTERS, FLEXIBASE, PC-TASK 2.03, LABEL PRINT, PRINT STUDIO

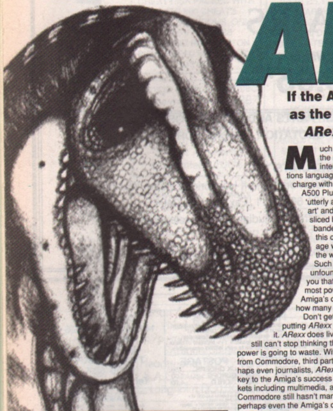
UTILITIES PACK 1 (5)

DOS CONTROL, DIRWORK DISK SALVAGE, ADOC, DISK OPTIMISER, DISK SPEED, FILE MINDER, D-COPY 3.1, ICON EDITOR, VIRUS CHECKER, TEXTRA

WB 2/3 UTILITIES (5)

MCMASTER, PRINT FILES, PLAY SOUND, FIND, TINY CLOCK, WINDOW TILER, UPDATE ICON, MEMSNAP, FONTVIEWER, FINDIT, ICONAUTHOR, QMOUSE, TEXTREAD, MULTICLOCK, CLOSEWD, KEYCLICK, BOOTLOGO, POWERSNAP, COLOUR SWITCH, PAPER BACK

TYRANNOSAURUS AREXX



If the Amiga is to be saved from the same fate as the dinosaurs, more effort must be put into *ARexx* compatibility, argues Jason Holborn.

Much has been said about the merits of *ARexx*; the inter-process communications language now bundled free of charge with all Amigas since the A500 Plus. Phrases such as 'utterly amazing', 'state-of-the-art' and 'the best thing since sliced bread' have been banded about concerning this communications package with little concern for the welfare of the innocent. Such claims certainly aren't unfounded; any techie will tell you that *ARexx* is one of the most powerful aspects of the Amiga's operating system. But how many people actually use it?

Don't get me wrong, I'm not putting *ARexx* down one bit. Far from it. *ARexx* does live up to the hype, but I still can't stop thinking that perhaps all this power is going to waste. With a little more effort from Commodore, third party developers and perhaps even journalists, *ARexx* could prove to be the key to the Amiga's success in a number of markets including multimedia, a market that Commodore still hasn't managed to crack, and perhaps even the Amiga's own long term survival.

CU AMIGA's missing link, Jason Holborn, argues the case for Arexx compatibility.

Ok, so products such as *Scala Multimedia* have achieved a certain amount of success (rumour has it that even IBM have bought several *Scala* setups), but the Amiga is still seen as nothing more than a games machine in the eyes of corporate buyers.

ARexx could change all this if Commodore were to encourage both users and third-party developers to make greater use of *ARexx*. One of the biggest problems is the lack of *ARexx* support amongst developers.

Ok, so many software products feature *ARexx* 'ports', but even these tend to be mainly of American origin. So, why aren't UK developers making their wares *ARexx* compatible? Some argue that their products don't suit *ARexx* compatibility, but I have yet to find a single *ARexx*-compatible product that hasn't been significantly enhanced with *ARexx* compatibility.

HARD FACTS

One of the most worrying aspects of this equation is the lack of *ARexx* support amongst hardware developers who (although they don't seem to realise) have the most to gain from *ARexx* compatibility. By making a hardware product *ARexx* compatible, that product could theoretically be driven by any package that sports an *ARexx* port. At the moment, it's left to the developers of individual software programs to write the necessary drivers to allow their software product to control a piece of hardware, but it shouldn't be this way.

Take a CD-ROM drive, for example. If the developers of that drive were to write an *ARexx*-compatible device driver that featured a set of commands giving control over the drive, any authoring or desktop video program could access it without special drivers needing to be written.

As far as I know, only a single hardware developer has seen the light. GVP, always a company at the forefront of development, have released two hardware products boasting *ARexx* compatibility; *G-Lock genlock* and *DSS 8+* sound sampler.

More hardware developers need to follow GVP's lead. In particular, Commodore should set an example by making their new A1200 CD-ROM drive (when it arrives) *ARexx* compatible. It can certainly be done, the PD program *JukeBox* (on Fish disk 819) allows A500 owners to play CD sound tracks from the Workbench on machines equipped with an A570 CD-ROM drive. With FMV (Full Motion Video) technology for the Amiga waiting in the wings, *ARexx* compatibility on CD-ROM drives will become even more important.

Another problem lies with *ARexx* itself. It really does need to be made a bit friendlier by bringing it up from the Shell so that it runs under Workbench. Although many techies swear by the current system, *ARexx* shouldn't be restricted only to those that understand the Shell. Many users complained when Commodore ceased shipping machines with AmigaBASIC, so Commodore could answer both criticisms by bundling some form of Intuition-based *ARexx* program editor that allows you to not only edit *ARexx* scripts, but also execute them too without having to drop back to the Shell.

Commodore also needs to increase the profile of *ARexx* by including the *ARexx* manual with all machines (yes, even the A600!). At the moment, the only users that even know that *ARexx* exists are those who buy A4000s!

WIDE EYED

If developers were to open their eyes to the possibilities of *ARexx* then perhaps we'll start to see a greater acceptance of the Amiga as a professional machine. Let's face it, even if the Amiga still doesn't manage to penetrate the markets that have eluded it for so long, at least the rest of us would have products that offer a considerably higher level of compatibility.

The IFF file format revolutionised Amiga file compatibility and ARexx could do exactly the same thing for hardware. So come on all you developers, think *ARexx*! CU

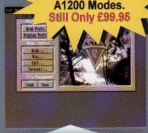
VIDI-AMIGA 12 *Ver 2*

Now Supports all New AGA & A1200 Modes. Still Only £99.95

The all new Vidi-Amiga 12 (Ver.2). You may think our existing Vidi-Amiga 12 is a hard act to beat, but when you look closely at our newly designed ergonomic interface and interactive menu system you will surely agree that the impossible has been achieved !.

Vidi-Amiga 12 is now faster, smoother and even easier to use than before. It has specification levels unmatched by any other product, at any price !. With full A1200 and AGA chipset support. A summary of the specification is listed below... Many improvements have been as a direct result of customer feedback.... Thank You.

Rombo, the makers of..Vidi. the best selling Digitiser in the World



MAIN CONTROL WINDOW

Vidi-Amiga 12 V2.00 Specification

Composite, S-Video or SVHS inputs.

Digitise in 320 X 200 NTSC or 320 X 256 PAL
320 X 400 NTSC or 320 X 512 PAL

NEW GRAB MENU

Supports the following screen modes

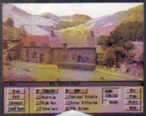
*262000 HAM-8 *4096 HAM *256 COLOUR
*128 COLOUR *64 COLOUR *64 EHB MODE
*32 COLOUR *16 COLOUR *8 COLOUR
*4 COLOUR *2 COLOUR *HAM-E (*)

NEW ANIMATION WORKSTATION

Display resolution up to 704 x 566:

320 X 256
320 X 512
384 X 283
384 X 566
640 X 256
320 X 200
320 X 400
384 X 200
640 X 240
640 X 400
640 X 512
704 X 240
704 X 283
704 X 480
704 X 566

SUPPORTS FULL OVERSCAN/ INTERLACE/ HI-RES MODES



NEW MIX CONTROL PANEL

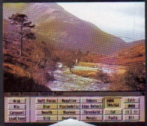
Other Features Include:

New

*SWIPE & PLAY ANIMATION WORKSTATION.
*LOAD & SAVE 12 & 24 BIT IFF FILES.
*LOAD & SAVE IFF ILBM & ANIM FILES.
*CUT & PASTE BETWEEN FRAMES.
*TIME LAPSE REMOTE GRABBING.
*IMPROVED COMPLEX ALGORYTHM.
*ADVANCED ERROR DIFFUSION.
*USER DEFINABLE WINDOW.
*FLIP IMAGES ON X OR Y AXIS.
*DYNAMIC MIX DOWN PALETTE.

New Improved Image Processing

*NEGATIVE
*SHARPEN
*QUANTISE
*SILK
*SOFTFOCUS
*MOSAIC
*THRESHOLD
*SMOOTH
*EDGE DETECT
*PSYCHEDELIC
*EMBOSS
*BLUR
*CUT
*PASTE
*FRAME SELECT



NEW IMAGE PROCESSING

Compatible with all Amiga's Including Workbench 3.0

TEL: (44) 0506 414631 FAX: (44) 0506 414634

Rombo Productions Ltd. Baird Road, Kirkton Campus. LIVINGSTON EH54 7AZ

THE EYES HAVE IT!

THE CRITICS HAVE CAST THEIR VOTE - FLASHBACK IS THE WINNER

“ Flashback... outperforms Another World - it's by far the deeper game of the two ”

CIARAN BRENNAN
Games Retailer (UK)

“ This game has no equal in its field ”

DOMINIC DIAMOND
Gamesmaster TV Series (UK)

“ Just awesome!... best Mega Drive game I've ever seen or played! ”

PAUL GLANCEY
Megatech (UK)

“ ...there's over two-thirds of the year left and I can honestly state that Flashback is the game of the year! ”

SIMON BYRON
The One Amiga (UK)

U.S. GOLD

available for your Sega Mega Drive, PC & Compatibles and Amiga

Delphine
Software International

Creation and Development: Delphine Software International. © 1993 Delphine Software International. © 1993 U.S. Gold Ltd. All rights reserved. "SEGA" and "MEGA DRIVE" are trademarks of Sega Enterprises Ltd.